TOPFIELD

SRP-2100

User Guide

High Definition
Digital Satellite Receiver
Personal Video Recorder
Common Interface

DVB
Digital Video
Broadcasting

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Chapter 1

Introduction

The SRP-2100 digital receiver is fully compliant with the international Digital Video Broadcasting (DVB) standard, and thus is able to receive digital broadcasts of that standard. For its operation you need an antenna, which must be installed appropriately.

NOTE

In general we equate a channel with a frequency. However, unlike analogue broadcasts, digital broadcasts are not all assigned to their own frequencies; instead, multiple television broadcasts are transmitted through a single frequency. The frequency in digital broadcasting is usually called transponder or multiplex. To reduce confusion in this manual, the word **service** is preferably used than **channel** as a term to indicate one television or radio broadcast.

1.1 Features

This digital receiver has the following features:

- Supports DiSEqC 1.0, DiSEqC 1.1, DiSEqC 1.2 and USALS protocols.

- Can store up to 10,000 television and radio services.
- You can edit the services list.
- Can create lists of your favourite services.
- Can view information about the current television or radio programme.
- Has an electronic programme guide that provides an overview of scheduled programmes.
- You can record one service while you are currently watching another.
- You can record many programmes using a built-in hard drive with large storage capacity.
- Time-shift is a special technical feature available on this digital receiver. You can pause a programme you are watching and resume it again at a later time. Then you can quickly go to any part of the current programme by fast forward or rewind search.
- If you have an external hard drive connected to the digital receiver via the USB or eSATA port, you can record television programmes into it.
- You can play back video files of various formats including DivX.
- You can play a built-in network game with other users via the Internet.
- You can use various Web services including YouTube.

1.2 Controlling the digital receiver

You can operate the digital receiver with the remote control or the buttons on the front panel.

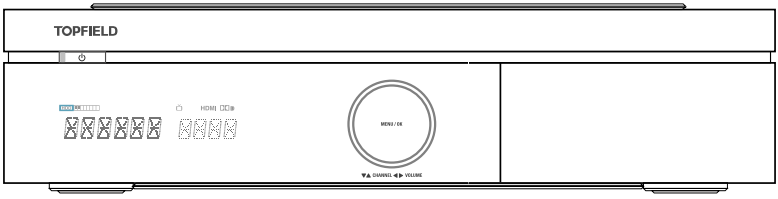
NOTE

When the digital receiver is off but plugged into a wall socket, we say that it is in standby mode; on the other hand, when it is on, it is in active mode. Even when you are not

using the digital receiver, you should keep it plugged into a wall socket to be in standby mode so that it can run timer events at any time.

1.2.1 Front panel

The front panel of the digital receiver has buttons to control the digital receiver, specific lights and a display to indicate its status. The following indicates what they mean.



⏻ button switches the digital receiver between standby mode and active mode. This button has a tiny light on its left edge, which lights up in red in standby mode if the Standby Mode option is set to Passive. See §4.12 for more details.

Front display shows the current time in standby mode, and displays the current service in active mode.

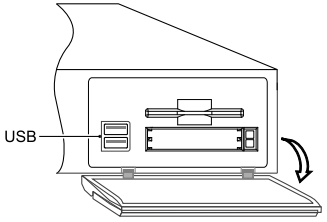
MENU button displays the main menu. It is also used to return to the previous menu from a submenu.

> Hold the MENU/OK button down two seconds to make it function as the menu button.

OK button displays the services list. See §5.2.1 for more details. It is also used to select a menu item.

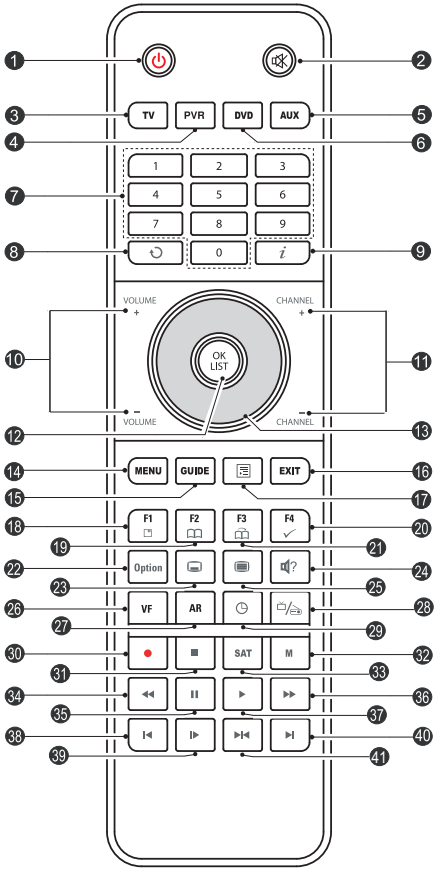
CHANNEL ▼, ▲ buttons switch to the previous or next service.

VOLUME ◀, ▶ buttons decrease or increase the volume.



There is a USB port on the front panel for firmware update and data transfer.

1.2.2 Remote control



1 ⏻ button switches the digital receiver between standby mode and active mode.

2 🔇 mutes the sound. Press again to switch it back on.

3 TV switches the remote control to television mode to operate your television.

4 PVR switches the remote control to receiver mode to operate the digital receiver.

5 AUX switches the remote control to operate your audio-video receiver.

6 DVD switches the remote control to DVD mode to operate your DVD player.

7 Numeric buttons are used to enter a service number for service change or to specify values for menu options.

8 ↺ switches over between the current service and the previously viewed one.

9 *i* displays the service information box. It is also used to display more information about a programme.

10 VOLUME−, VOLUME+ buttons decrease or increase the volume.

11 CHANNEL−, CHANNEL+ buttons switch to the previous or

next service.

12 OK displays the services list. See §5.2.1 for more details. It is also used to select a menu item.

13 Navigation buttons are used to navigate in menus or to change values for menu options.

14 MENU displays the main menu. It is also used to return to the previous menu from a submenu.

15 GUIDE displays the electronic programme guide.

16 EXIT is used to exit a menu or to hide on-screen information.

17 is used to display the list of recorded programmes that are stored in the internal hard drive. See §7.2 for more details.

18 F1 is used to show, minify or hide the sub-picture. See §5.6 for more details about picture-in-picture.

19 F2 is used to make a bookmark on playback or time-shift.

20 F4 is used to edit a recording.

21 F3 is used to jump to next bookmark position.

22 Option has different functions per menu.

23 is used to select a subtitle track.

24 is used to select an audio track and a sound mode, or a video track of multifeed programme.

25 displays teletext.

26 VF changes video resolution. See §4.2.1 for more details.

27 AR changes aspect ratio. See §4.2.2 for more details.

28 switches over between television services and radio services.

29 is used to set a sleep timer in 10 minute increments.

30 is used to start recording.

31 is used to stop playback, to stop recording, or to jump back to live television from time-shifted television.

32 (M) switches the output of the TV SCART socket over between the digital receiver and the device connected to the VCR SCART socket. See §4.2.4 for more details.

33 (SAT) displays the satellites list with their services list. It is also used to swap the sub-picture with the main picture in picture-in-picture mode. See §5.6 for more details.

34 ◂◂ is used to start reverse playback. Subsequent presses increase the rewind speed.

35 ⏸ pauses live television or playback of a recorded programme.

36 ▸▸ is used to start fast forward playback. Subsequent presses increase the playback speed.

37 ▸ resumes normal playback speed, or displays the progress bar for navigation on playback or time-shift. To play a recorded programme, see button **17**.

38 ⏮ changes the position of sub-picture counterclockwise. It is also used to jump back to the beginning of the recording on playback.

39 ▸❙ is used to start slow motion playback. Subsequent presses change the playback speed.

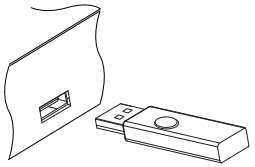
40 ⏭ changes the position of sub-picture clockwise. It is also used to jump to the end of the recording on playback.

41 ⏮⏭ has different functions per menu.

NOTE

When using the remote control, point it at the remote sensor on the front panel of the digital receiver.

1.2.3 Wireless keyboard



You can operate the digital receiver with the wireless keyboard as well as the remote control. To be able to use the keyboard, you should plug the keyobard receiver into a USB port on the digital receiver. To see the keyboard map, press the F10 key on the keyboard on the live television screen.

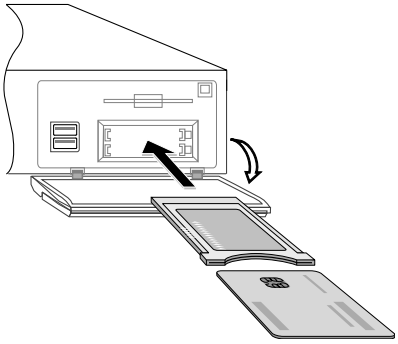
Table 1.1: Keyboard map

Remote control	Keyboard	Remote control	Keyboard
0 – 9	0 – 9	F1 – F4	F1 – F4
↺	Backspace	Option	F5
i	i	VF	v
VOLUME +	+	AR	k
VOLUME –	–	🕒	l
CHANNEL +	Page Up	🖵/📺	r
CHANNEL –	Page Down	●	d
OK	Enter	■	s
Navigation buttons	Arrow keys	SAT	c
🔇	‘	M	m
MENU	q	▶	a
GUIDE	g	⏸	p
☰	f	◀◀	,
EXIT	Esc	▶▶	.
▤	t	▶|	/
🔇?	y	|◀▶|	j
⌨	u	|◀◀	<
		▶▶|	>

NOTE

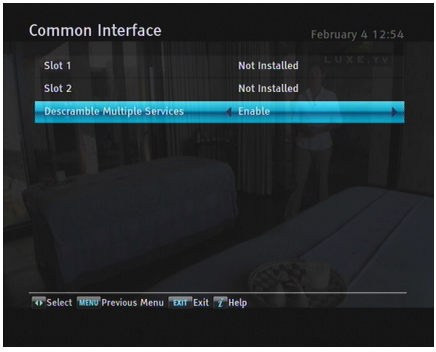
Use the provided wireless keyboard only. If you try to use a wireless keyboard other than the provided one, the digital receiver will not react to the commands of it.

1.3 Common Interface



There are pay TV services available; these are accessible with the use of a Conditional Access Module (CAM) and a subscription card. A Common Interface (CI) is the slot into which you can insert a CAM. The front of the digital receiver has two common interface slots. To watch a pay service, you should take the following steps:

1. Purchase a CAM and a subscription card for the pay service you want to watch.
2. Insert the subscription card into the CAM.
3. Insert the CAM into a common interface on the front of the digital receiver.



To view the information about the module and subscription card which is inserted into the digital receiver, select the Information > Common Interface menu.

NOTE

If you wish to watch two pay services using the picture-in-picture feature, You have to set the Descramble multiple services option to Enable, and then install a dedicated CAM

that is able to descramble two pay services simultaneously. See §5.6 for the picture-in-picture feature.

Chapter 2

Setup

2.1 Unpacking

Before going any further, check that you have received the following items with the digital receiver.

- Remote control
- Wireless keyboard with USB receiver
- Four batteries for the remote control and wireless keyboard (AAA 1.5 V)
- One HDMI cable
- One Component cable (RCA cable)
- A copy of this user guide

NOTE

Accessories may vary according to your local area.

2.2 Safety precautions

Please read carefully the following safety precautions.

- The mains voltage must range between 90 and 250 volts. Check it before plugging the digital receiver to the wall

socket. For the power consumption of the digital receiver, refer to Table 2.1.

- The wall socket should be near the equipment. Do not run an extension lead to the unit.
- The mains plug shall remain readily operable so that it can be removed easily to disconnect the power.
- The digital receiver shall not be exposed to dripping or splashing water, and no objects filled with liquids, such as vases, shall be placed on it.
- Do not expose the digital receiver to any moisture. The digital receiver is designed for indoor use only. Use dry cloth to clean the digital receiver.
- Place the digital receiver on a firm and level surface.
- Do not place the digital receiver close to heat emitting units or in direct sunlight, as this will impair cooling. Do not lay any objects such as magazines on the digital receiver. When placed in a cabinet, make sure there is a minimum space of 10 centimetres around it. For the physical specification of the digital receiver, refer to Table 2.2.
- Protect the power cord from being walked on or pinched. If the cord is damaged, do not use the digital receiver and get the cord replaced.
- Never open the digital receiver casing under any circumstances, or the warranty will be void.
- Refer all servicing to a qualified service technician.

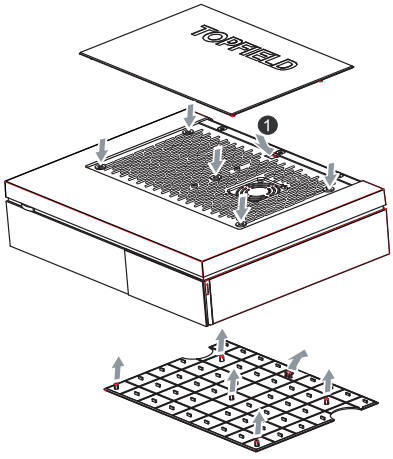
Table 2.1: Power specification

Input voltage	90 to 250 V AC, 50/60 Hz
Power consumption	60 W at maximum in active
	Under 1 W in passive standby

Table 2.2: Physical specifications

Size	340× 82× 258 mm
Weight	3.8 kg
Operating temperature	0 to 45 °C
Storage relative humidity	5 to 90 %

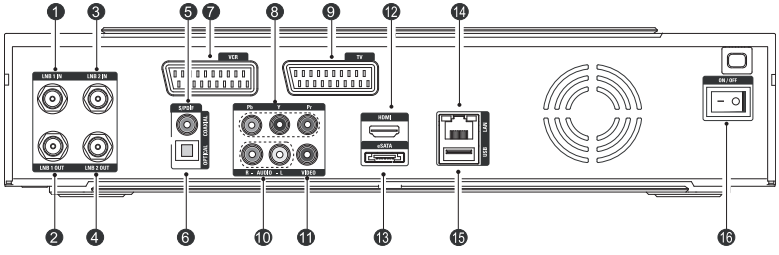
The digital receiver has two covers are fitted slightly above its top and bottom surface for cooling. If they come off, fix them following the instructions below.



1. Put the hook of the front cover in the center of the back side as shown in the left figure.
2. Push down the outer face of each strut until it is firmly fixed.
3. Turn upside down the digital receiver.
4. Do it with the bottom cover in the same way.

2.3 Rear panel connections

The SRP-2100 has a wide range of connections on the back.



Check what connections your television set has in comparison with the digital receiver.

1 LNB 1 IN — Satellite broadcasting signal input socket for the first tuner
(Current: Max.500mA with overload protection)

2 LNB 1 OUT — Satellite broadcasting signal output socket through the first tuner

3 LNB 2 IN — Satellite broadcasting signal input socket for the second tuner

4 LNB 2 OUT — Satellite broadcasting signal output socket through the second tuner

5 S/PDIF COAXIAL — Coaxial-type digital audio output socket for the audio-video receiver

6 S/PDIF OPTICAL — Optical-type digital audio output socket for the audio-video receiver

7 VCR — Audio and video input/output socket for another device such as a video recorder

8 Y/Pb/Pr — Component video output socket for the television set (green/blue/red)

9 TV — Audio and video output socket for the television set

10 AUDIO L/R — Stereo audio output socket for the television set or the audio-video receiver (white/red)

11 VIDEO — Composite video output socket for the television set (yellow)

12 HDMI — Audio and video output socket for the high definition television set

13 eSATA — eSATA port for connection to an external hard drive

14 LAN — Local area network port

15 USB — USB port for firmware update and data transfer

16 ON/OFF — Power switch (You have to turn on this switch first to use this digital receiver.)

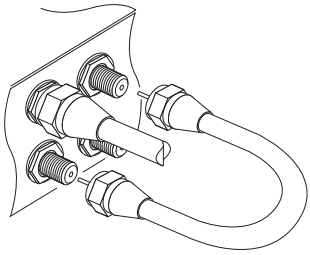
Table 2.3: Connectors specifications

HDMI	High definition video output
	Left & right audio output
	Digital audio output
TV	CVBS/S-Video/RGB video output
	Left & right audio output
VCR	CVBS video output
	Left & right audio output
	CVBS/S-Video/RGB video input for bypass
	Left & right audio input for bypass
YPbPr	Component video (YUV) output
VIDEO	Composite video (CVBS) output
AUDIO	Left & right audio output
S/PDIF	Digital audio output
LAN	10/100 Ethernet
USB	2.0 Host (5 V DC, 500 mA)
eSATA	External hard disk drive connector

2.4 Connecting up your digital receiver

There are several ways to set up the digital receiver. Set up the digital receiver suitably to your television and other devices. If you have any problem with your setup or need help, contact your dealer.

2.4.1 Connecting to the antenna



Whatever sort of connection you have between the digital receiver and the television, you need to connect the digital receiver to the antenna so that it can receive digital television broadcasts. Connect the antenna cable to the LNB 1 IN connector on the back panel of the digital receiver. Also, you must ensure that there is a connection to both the LNB 1 IN and LNB 2 IN connectors on your digital receiver, so that both tuners work properly.

Normally you do that by using a loop cable to link from the LNB 1 OUT connector to the LNB 2 IN connector. If you have two antennas without DiSEqC switch, then you have to connect the cable from the other antenna directly to the LNB 2 IN connector rather than using the loop cable.

NOTE

The digital receiver can supply a current of 500 milliampere at maximum for antenna devices including LNB, DiSEqc switch and antenna rotor through each antenna input connection separately but not simultaneously. If there are too many antenna devices to be simultaneously supplied with sufficient power for a rather long time through the antenna input connections, then your antenna may lack power to operate. So it is recommended to link the LNB 1 OUT connector to the LNB 2 IN connector with a loop cable, even though the digital receiver is designed to operate independently over two antennas.

NOTE

Perhaps you are expecting that the satellite antenna could simultaneously catch all frequencies coming from a satellite

and send them to the digital receiver. However, the satellite antenna only sends the frequencies that it can catch with the LNB frequency and polarisation specified by the digital receiver. So if you have linked from the LNB 1 OUT connector to the LNB 2 IN connector, you would have some limitations in using some features such as dual recording. Likewise, if you have another digital receiver linked from the LNB 2 OUT connector, you can only use it limitedly. See §3.1 for more details.

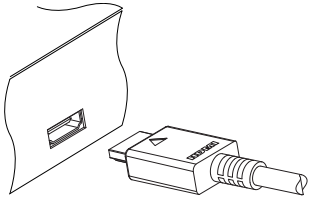
2.4.2 Connecting to your television set

For all the following connections of the digital receiver, we recommend you to use the first connector to get the best picture quality. If your television does not have a matching connector, then use the next connector in the following order for a better picture quality.

1. HDMI connector (HDMI)
2. Component connector (YPbPr)
3. SCART connector (TV)
4. Composite connector (VIDEO)

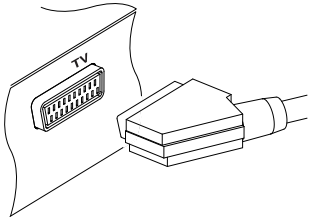
You should configure audio and video settings after connecting up the digital receiver. See §4.2 for a detailed description.

To use the HDMI output



If you have a high definition television set, you should use an HDMI cable for best results. Plug one end of the cable into the HDMI socket on the digital receiver, and plug the other end into the matching socket on your television. In this case, you do not have to make audio connection because it can output stereo audio or digital audio as well.

To use the SCART output



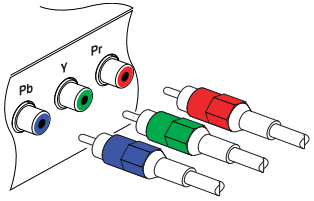
For best results with a standard television set, you should use a SCART cable. Plug one end of the cable into the TV socket on the digital receiver, and plug the other end into a free SCART socket on your television.

If you connect with a standard SCART cable, you do not have to make audio connection because it can output stereo audio as well. But if you use a conversion cable such as SCART-to-Component, then you have to make audio connection.

NOTE

You cannot view high definition video by means of the SCART output.

To use the Component video output

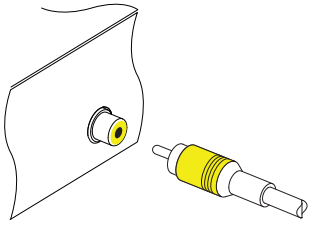


You need to obtain a Component video cable (RCA cable) to use the Component video output. Plug one ends of the cable into the Y (green), Pb (blue) and Pr (red) sockets on the digital receiver, and plug the other ends into the matching sockets on your television.

NOTE

When connecting with the Component video cable, remember to also plug in the additional white and red audio cables from the digital receiver to the back of your television.

To use the Composite video output

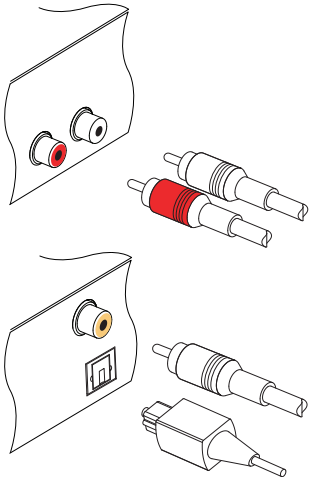


You need to obtain a Composite video cable (RCA cable) to use the Composite video output. Plug one end of the cable into the VIDEO (yellow) socket on the digital receiver, and plug the other end into the matching socket on your television.

NOTE

You cannot view high definition video by means of the Composite video output.

To make the audio connection



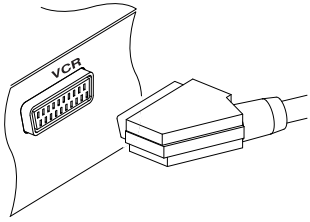
You need to obtain an audio cable (RCA cable) to link the audio connectors. Plug one ends of the cable into the AUDIO L (white) and AUDIO R (red) sockets on the digital receiver, and plug the other ends into the matching sockets on your television or audio-video receiver.

To enjoy Dolby Digital audio, your television or audio-video receiver must be able to decode Dolby Digital audio, and you need to obtain an S/PDIF cable.

If you want to use the COAXIAL connector, prepare a coaxial S/PDIF cable (RCA cable); otherwise to use the OPTICAL connector, prepare an optical S/PDIF cable. Plug one end of the cable into the S/PDIF socket on the digital receiver, and plug the other end into the matching socket on your audio-video receiver.

2.4.3 Connecting to your video recorder

The digital receiver can also output video through an auxiliary SCART connector to another device such as a video recorder.



You need to obtain a SCART cable to link the auxiliary SCART connector. Plug one end of the cable into the VCR socket on the digital receiver, and plug the other end into the matching socket on your video recorder or suchlike.

2.5 Switching on for the first time

Now that you have your digital receiver connected, you should plug it into a wall socket. Ensure that your television set is turned on and on the correct video channel so that you will be able to see the display from the digital receiver.

Before switching on the digital receiver, you should insert batteries into the remote control. Open the battery compartment by removing the lid, and then insert the batteries observing the polarity, which is marked on the base of the battery compartment.

Press the ⏻ button on the top left corner on the remote control. In a little time, you may see a picture displaying a menu.

If you do not see a picture, try pressing the VF button on the remote control. If after several tries you still get no picture, check that the television is set to the correct input. If the picture is good, you can skip to §3.1 to search for available television and radio services. Otherwise, you may need to temporarily connect the Composite video connector (VIDEO) to your television set so that you can see the menu in order to configure the video settings.

CAUTION

If the digital receiver no longer reacts properly to the remote control commands, the batteries may be flat. Be sure to replace only with 1.5 V AAA size batteries, and observe the following precautions.

- Do not mix different types of batteries, or new and old batteries.
- Do not use rechargeable batteries.
- Do not recharge the old batteries.
- In order to avoid any risk of explosion, observe the polarities indicated inside the battery compartment.
- Do not subject to excessive heat such as the sun and fire.
- If you are not using the remote control for a long period of time, remove the batteries. The manufacturer accepts no liability for the damage resulting from leaking batteries.
- Batteries, including those which contain no heavy metals, may not be disposed with other household wastes. Please dispose of used batteries in an environmentally sound manner. Find out the legal regulations which apply in your area.

Chapter 3

Service Search

After connecting up the digital receiver, you will need to perform a service search.

NOTE

If there is no service stored, you will be not able to access all menus. A SERVICE is another name for a CHANNEL.

3.1 Searching for broadcasting services

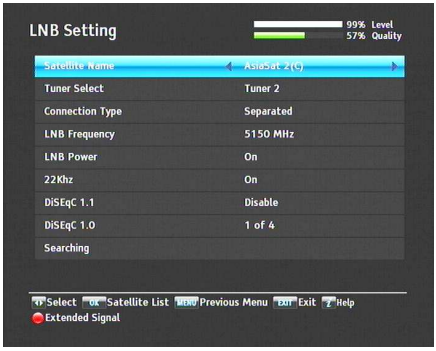
This digital receiver can be operated with both fixed antenna and motorized antenna. You have to configure antenna settings according to your antenna system in the following order:

1. Configure LNB settings. Refer to §3.1.1.
2. Set the position of your desired satellites if you have a motorized antenna. You can control the antenna in DiSEqC 1.2 mode or USALS mode. Refer to §3.1.2 for DiSEqC 1.2, and refer to §3.1.3 for USALS.
3. Perform a service search.

3.1.1 Configuring LNB settings

There are two large frequency bands for satellite broadcasts. One is C band which ranges approximately from 4 to 6 GHz. The other is K_u band which ranges approximately from 12 to 18 GHz.

The LNB (Low Noise Block converter) is used to take a wide band of relatively high frequencies, amplify and convert them to similar signals that is carried at a much lower frequency, which is called Intermediate Frequency (IF). High frequencies from satellites are converted into 950 to 2150 MHz by a LNB.



Select the Installation > LNB Setting menu to configure the LNB settings. You should see a screen like the left figure.

Pressing the OK button on the Satellite Name option displays the satellite list in alphabetic order. Select the satellite toward which your antenna is set to face. Even if you cannot find your desired satellite, you can add your desired satellite to the satellite list. See §3.3 for a detailed description.

You have to specify which tuner is connected to your selected satellite. If it is LNB 1 IN, set the Tuner Select option to Tuner

1; otherwise, set it to Tuner 2.

If you have connected the LNB 1 OUT and LNB 2 IN with a loop-through cable, then set the Connection Type option to Loop Through; otherwise, set it to Separated.

NOTE

Both the LNB 1 IN and LNB 2 IN sockets should be connected to your antennas either directly or via the loop-through cable. If you have connected only one socket, some features such as dual recording will not function.

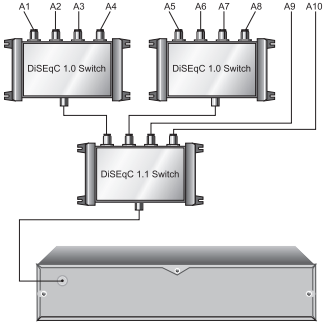
The digital receiver has a database of broadcasting satellites and their transponders, containing the following information: satellite position, frequency range, symbol rate, polarization and LNB frequency corresponding to the frequency range. So you might not have to specify the LNB Frequency option. However, if you have selected the Other entry at the Satellite Name option to specify a satellite that is not in the satellite list, you might have to fill in the correct LNB frequency. The absolute difference between a broadcasting frequency and its LNB frequency must be within 950 to 2150 MHz. For example, if the frequency band of your desired satellite ranges from 3660 to 4118 MHz, you have to set the LNB Frequency option to 5150 MHz.

The LNB has to be supplied with electric power to operate. Set the LNB Power option to On if it does not have any other power supply.

If you use a dual LNB or two antennas which is connected to the 22 kHz tone switch box, set the 22 kHz option to On.

The digital receiver is designed to be compatible with DiSEqC (Digital Satellite Equipment Control) switches. It is possible to connect several antennas to one digital receiver by DiSEqC switches. A DiSEqC 1.0 switch allows switching between up to four satellite sources and a DiSEqc 1.1 switch allows switching between up to 16 satellite sources.

Set the DiSEqC 1.0 option and the DiSEqC 1.1 option according to your antenna configuration.

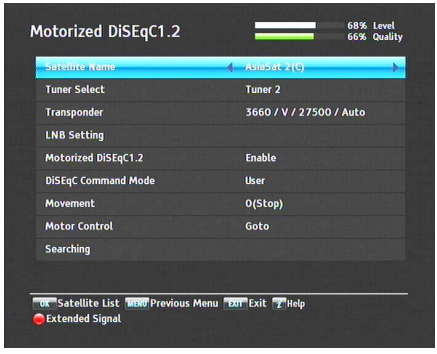


For example, to select the antenna connected to the A5 input in the left figure, set the DiSEqC 1.1 option to 2 of 4 and the DiSEqC 1.0 option to 1 of 4. If you have a mini DiSEqC 1.0 switch which has only two inputs, you should set the DiSEqC 1.0 option to Mini A instead of 1 of 4.

3.1.2 Configuring DiSEqC 1.2 settings

Your motorized antenna will turn toward your desired satellites horizontally by DiSEqC 1.2.

When you switch to a service, if it is not provided by the current satellite, it will take longer time than usual because the antenna has to turn to its position.



To use the DiSEqC 1.2 protocol, select the Installation > Motorized DiSEqC 1.2 menu. You should see a screen like the left figure. At first you have to set the Motorized DiSEqC 1.2 option to Enable.

To get the correct position of your desired satellite, take the

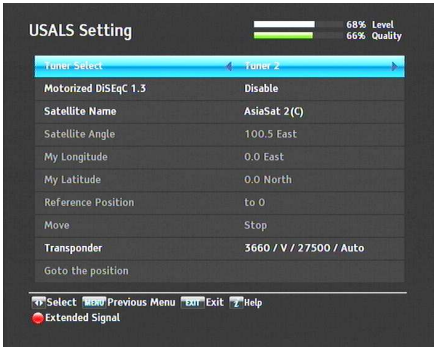
following steps:

1. Choose your desired satellite at the Satellite Name option.
2. Select the tuner that is connected to the motorized antenna at the Tuner Select option.
3. Set the DiSEqC Command Mode option to User.
4. Set the Motor Control option to Goto. Then the antenna will turn toward your selected satellite by the position data that the digital receiver has.
5. If the receiving quality, which is displayed at the bottom right of the screen, is not good, tune the antenna finely with the Movement option. If you set it to 2(E), the antenna will move to the east by two degrees. At this time you had better check the receiving quality of every transponder and choose the best one at the Transponder (or Frequency) option. It will be helpful to your fine tuning.
6. Finally set the Motor Control option to Store to save the tuned position when the receiving quality is best.

There are more motor control options for installers, but this guide does not describe them. If you are an installer, refer them to the manual about the *STAB* rotor.

3.1.3 Configuring USALS settings

USALS (Universal Satellite Automatic Location System), also known as DiSEqC 1.3, calculates the positions of all available satellites from your location. Compared to DiSEqC 1.2, it is no longer required to manually search and store every satellite position. Just pointing to a known satellite position is enough. This position will act as a central point. The USALS will then calculate positions of visible satellites.

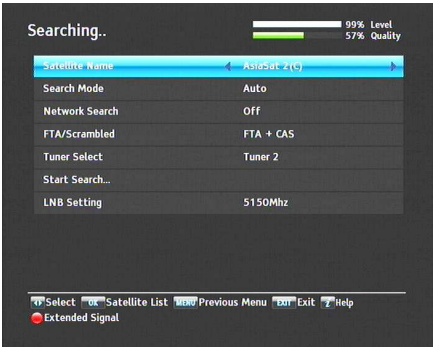


To use the USALS protocol, select the Installation > USALS Setting menu. You should see a screen like the left figure. At first you have to set the Motorized DiSEqC 1.3 option to Enable.

To get every satellite position calculated, take the following steps:

1. Choose your desired satellite at the Satellite Name option.
2. Select the tuner that is connected to the motorized antenna at the Tuner Select option.
3. Enter your location to the My Longitude option and the My Latitude option with the , and numeric buttons.
4. Enter the position of your selected satellite to the Satellite Angle option if it is not correct.
5. Select the Goto the position option, then the antenna will turn toward your selected satellite as calculating its position.
6. If the receiving quality, which is displayed at the bottom right of the screen, is not good, then tune the antenna finely with the Move option. The changed position is automatically saved. At this time you had better check the receiving quality of every transponder and choose the best one at the Transponder (or Frequency) option. It will be helpful to your fine tuning.

3.1.4 Searching for services



To perform a service search, select the Installation > Searching menu. You should see a screen like the left figure.

There are in general four service search methods:

- searching every service of a satellite,
- searching every service of a transponder,
- searching single service of a transponder,
- searching every service of a SMATV (Satellite Master Antenna Television) system.

Searching every service of a satellite

To search every service of a satellite, take the following steps:

1. Choose your desired satellite at the Satellite Name option.
2. Set the Search Mode option to Auto.
3. If you set the Network Search option to On, the digital receiver will check up the up-to-date channel information while searching services, but it takes a rather longer time.

With the Auto mode, the digital receiver tries to search every service, relying on the transponder data which is stored at the time of manufacture. It thus may happen to fail to search all actually available services since services are more often than not launched, discontinued, or removed into another transponder.

Searching every service of a transponder

To search every service of a transponder, take the following steps:

1. Choose your desired satellite at the Satellite Name option.
2. Set the Search Mode option to Manual, and then press the OK button to diaply additional options.
3. Choose your desired transponder at the Frequency option or enter it with the numeric buttons.
4. Enter the symbol rate of your desired transponder to the Symbol Rate option with the numeric buttons.
5. Set the Polarization option to match to that of your desired transponder.
6. If you set the Network Search option to On, the digital receiver will check up the up-to-date channel information as searching services, but it takes rather longer time.
7. Set the Modulation option to match to that of your desired transponder. If the transponder is of the DVB-S2 standard, you should set this option to DVB-S2 QPSK or DVB-S2 8PSK. Then the FEC option and the Pilot option will become enabled. You also should set these options correctly.

NOTE

You may get transponder information from a satellite magazine or website such as http://www.satbeams.com or http://www.lyngsat.com.

Searching single service of a transponder

To search single service of a transponder, take the following steps:

1. Choose your desired satellite at the Satellite Name option.

2. Set the Search Mode option to Advanced, and then press the OK button to diaply additional options.
3. Choose your desired transponder at the Frequency option or enter it with the numeric buttons.
4. Enter the symbol rate of your desired transponder to the Symbol Rate option with the numeric buttons.
5. Set the Polarization option to match to that of your desired transponder.
6. Set the Modulation option to match to that of your desired transponder. If the transponder is of the DVB-S2 standard, you should set this option to DVB-S2 QPSK or DVB-S2 8PSK. Then the FEC option and the Pilot option will become enabled. You also should set these options correctly.
7. At the PID option, specify the audio and video packet identification (PID) of your desired service with the numeric buttons.

Searching every service of SMATV system

To search every service of a SMATV system, if the digital receiver is connected to it, take the following steps:

1. Choose your desired satellite at the Satellite Name option.
2. Set the Search Mode option to SMATV, and then press the OK button to diaply additional options.
3. Choose your desired transponder at the Frequency option or enter it with the numeric buttons.
4. Enter the symbol rate of your desired transponder to the Symbol Rate option with the numeric buttons.

You can search pay services as well as free services as follows:

- To search only free services, set the FTA/Scrambled option to FTA only.
- To search only pay services, set it to CAS only.

- To search both free services and pay services, set it to FTA + CAS.

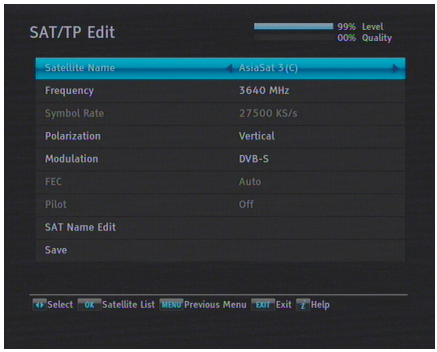
To start service search, move down to the Start Search item, and press the OK button. The digital receiver will start to search for services and display a list of television and radio services as they are found. It is common for no channels to be found until quite late in the process. When the scan is complete, you will see a message telling you how many services have been found. Press the OK button to save the list.

3.2 Copying services

The digital receiver maintains a separate services list with each tuner. If a certain service is registered on only one tuner, it may be impossible to watch one service while recording. You can copy entries of one tuner's services list to the other tuner's services list to avoid such inconvenience.

To copy service entries, select the Installation > Services Copy menu. There are three copy options. To copy service entries of the first tuner to the second tuner's services list, select the Tuner 1 to Tuner 2 option. To copy on the contrary, select the Tuner 2 to Tuner 1 option. To copy reciprocally, select the ALL option.

3.3 Editing the transponder list



If you failed to receive services of a transponder because it consists of wrong data, you can solve it by correcting the data. Select the Installation > SAT/TP Edit menu. To change the data of a transponder, take the following steps:

1. Choose your desired satellite at the Satellite Name option.
2. Choose your desired transponder at the Frequency option.
3. Change the Polarization option to match to that of your desired transponder.
4. Set the Modulation option to match to that of your desired transponder. If the transponder is of the DVB-S2 standard, you should set this option to DVB-S2 QPSK or DVB-S2 8PSK. Then the FEC option and the Pilot option will become enabled. You also should set these options correctly.
5. To change a satellite entry's name, select your desired entry at the Satellite Name option and select the SAT Name Edit option. Then the on-screen keyboard appears. Change the name and save it. See §6.3 as to how to use the on-screen keyboard.
6. Select the Save option and press the OK button to save the changes. To stop at any time or to exit without saving, press the EXIT button.

3.4 Resetting to factory settings

The digital receiver maintains the following data:

- Satellite list
- Services list
- Favourite list
- Timer list
- Preference settings

You can reset all data of the digital receiver. Select the Installation > System Recovery > Factory Setting menu, and then you get asked for confirmation. With the choice of Yes, the services list, favourite list and timer list will all be cleared, and preference options will be reset to the manufacturer's factory settings.

NOTE

A factory reset will not delete any recorded programmes. However, you have to search services again after a factory reset.

3.5 Resetting to user settings

You can store your own data including the following:

- Satellite list
- Services list
- Favourite lists
- Preference settings

Also you can restore them at any time.

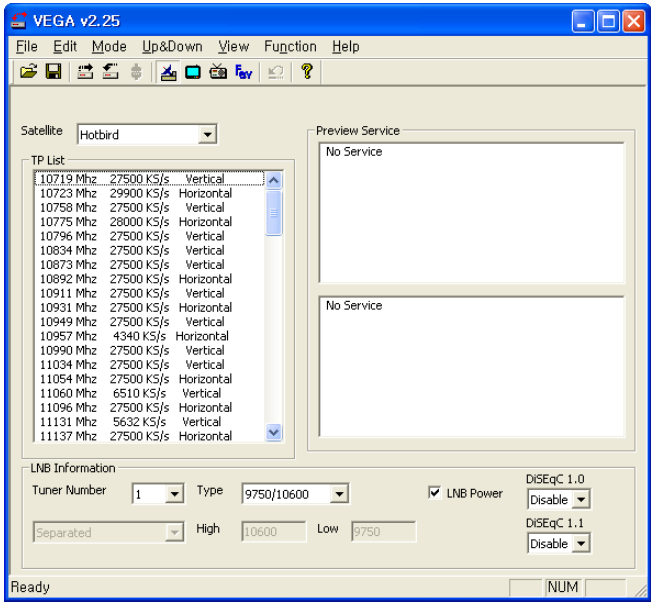
To store your data, select the Installation > System Recovery > Store System Data menu, then you get asked for confirmation. If you select Yes, your data will be stored. Whenever you store your data, they are all overwritten.

To restore your data, select the Installation > System Recovery > Recover System Data menu, then you get asked for confirmation. With the choice of Yes, your data will be restored.

You can also store your data to an external storage. To store your data to an external storage, select the Installation > System Recovery > Export System Data menu, then you get asked for confirmation. With the choice of Yes, your data will be stored. Every time you store your data, they are all overwritten.

To restore your data from an external storage, select the Installation > System Recovery > Import System Data menu, then system data will be listed. Select a data and press the OK button, then your data will be restored.

You can edit the channel data on your computer by using a channel editor software, *Vega*, which is available from Topfield's website, http://www.i-topfield.com/eng/download/utility_list.asp.



With Vega you can do the following:

- Adding, deleting or modifying satellite entries

- Adding, deleting or modifying transponder entries
- Deleting or modifying service entries
- Adding, deleting or modifying favourite groups

As to how to use Vega, refer to its user guide, which is accompanied by the software.

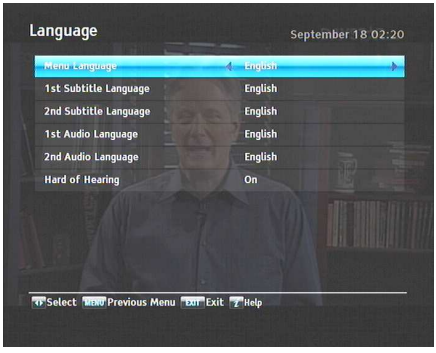
3.6 Clearing the services list

If you only want to clear the services list, select Installation > System Recovery > Reset Service List, then you get asked for confirmation. With the choice of Yes, the services list will be cleared. After this, you have to do service search again.

Chapter 4

Preference Settings

4.1 Language settings



You can select the language in which the menu will be displayed. In addition to that, you can select the language of audio track and of subtitle track. Select the Settings > Language menu. You should see a screen like the left figure.

4.1.1 Menu language

The digital receiver provides menus in several different languages. Set the Menu Language option to your desired language. Once you select a language, the menu will be immediately displayed in the selected language.

4.1.2 Subtitle language

Set the 1st Subtitle Language option and the 2nd Subtitle Language option to your desired languages. When you watch a programme, if the programme has a subtitle track of the language that is specified for the 1st Subtitle Language, it will be displayed. If the first language is not available but the second language is available, the subtitle of the second language will be displayed. If there is no available language, no subtitle will be displayed.

Apart from this setting, you can select a subtitle track with the button. See §5.2.5 for a detailed description.

4.1.3 Hard of Hearing

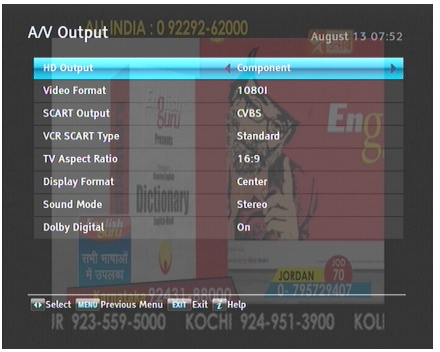
Some broadcasters may send a subtitle track dedicated to the hard-of-hearing. Even when a subtitle track or more is available, that subtitle track will be displayed prior to those you have specified for the 1st Subtitle Language and the 2nd Subtitle Language options if the Hard of Hearing option is set to On.

4.1.4 Audio language

Set the 1st Audio Language option and the 2nd Audio Language option to your desired languages. When you watch a programme, if the programme has an audio track of the language that is specified for the 1st Audio Language, it will be output. If the first language is not available but the second language is, the audio of the second language will be output.

Apart from this setting, you can select an audio track with the button. See §5.2.4 for a detailed description.

4.2 Video and audio settings



You have to configure the video and audio settings appropriately for your television set and other devices. Select the Settings > A/V Output menu. You should see a screen like the left figure.

4.2.1 High definition television

The digital receiver supports various video resolutions from 576 to 1080. In general, a resolution of 720 or more is considered high definition. The higher the resolution is, the better the quality is. However, if your television set does not support high definition, you cannot enjoy high definition quality picture.

If you have the digital receiver linked to your television via the Component video output (Y/Pb/Pr) or the HDMI output, you have to set the HD Output option to Component. Otherwise, you have to set it to SCART. The available values for the Video Format option vary depending on how you set this option.

Set the Video Format option as you desire. If you set this option to 576P, the digital receiver will present even high definition programmes in resolution of 576. On the contrary, if you set it to 1080I, the digital receiver will present even standard definition programmes in resolution of 1080.

It is recommended to set it to Auto if you have a high definition television. With that setting the digital receiver will present a programme as it is without any resolution conversion. While watching television you can change the resolution with the VF

button. Whenever you press it, the video resolution is changed in turn.

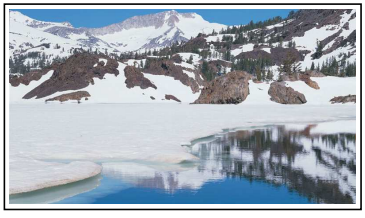
NOTE

You can enjoy only standard definition video with the following video outputs:

- Composite video output (VIDEO)
- SCART output (TV)

4.2.2 Television aspect ratio

If you have a wide-screen television, set the TV Aspect Ratio option to 16:9.



You can enjoy both wide-screen programmes and normal-screen programmes with your wide-screen television as the above figures show. To watch normal-screen programmes in full screen like the left figure, set the Display Format option to Full. Normal-screen pictures then will be inflated to fit to the width of the wide screen. Otherwise, to watch them in the original ratio like the right figure, set it to Center. If you have a normal-screen television, set the TV Aspect Ratio option to 4:3.

You cannot fully enjoy wide-screen programmes with your normal-screen television as the above figures show. The left figure shows a normal picture displayed in the normal screen. To watch wide-screen programmes in the shape like the centre figure, set the Display Format option to Letter Box. Wide-screen pictures then will be reduced to fit to the width of the normal screen. Otherwise, to watch them in the shape like the right figure, set it to Center extract. Then wide-screen pictures will be cut out on the left and right sides equally to fit to the width of the normal screen.

4.2.3 Colour format

Through the TV SCART output, the digital receiver is able to output video in various colour formats. If you have the digital receiver linked to your television via this output, you should set the SCART Output option to your desired colour format.

If you have connected via the RCA socket labeled VIDEO on the back panel, you do not have to set this option because the digital receiver outputs CVBS video through that RCA output independently of the SCART output.

In general, it is known that the RGB colour format provides the best video quality but the CVBS colour format does the least. So RGB would be the most desirable option for this.

4.2.4 Another video device

You can have the digital receiver linked to another video device like a video recorder or a DVD player via the VCR SCART output. In this case, the digital receiver will operate differently depending on the setting of the VCR SCART Type option. If the option is set to Standard, the digital receiver will pass along the video from the video device to your television when it starts playback. But if the option is set to External A/V, the digital receiver will not pass the video automatically. You have to press the [M] button to pass it along. It is impossible for the digital receiver to record the video from the video

device since the digital receiver is just a bypass for the video recorder.

4.2.5 Audio mode

Basically, there are two audio sources as you can find two audio sockets on the back panel of the digital receiver. You can enjoy only one source or both of them in either stereo or mono. Set the Sound Mode option as you desire.

Apart from this setting, you can change the sound mode with the button. See §5.2.4 for a detailed description.

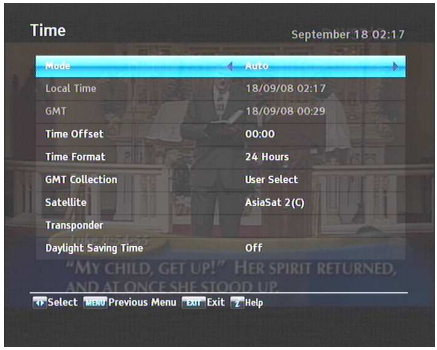
The digital receiver can output two types of digital audio signals via the S/PDIF output. One is an encoded signal, and the other is a decoded signal. If you have the digital receiver linked to your audio-video receiver via the S/PDIF output, you have to set the Dolby Digital option to Off, which means that the digital receiver will output encoded Dolby Digital audio without decoding so that your audio-video receiver can decode it. Otherwise, set it to On, then the digital receiver will output decoded Dolby Digital audio, scaling it down to two channels.

NOTE

Only if the service you are currently watching provides a Dolby Digital audio track, you can enjoy Dolby Digital sound.

4.3 Local time setting

You should set your local time for timer events. If you do not set the local time correctly, the programme time table provided by the programme guide may be distrustful. For the programme guide, refer to §5.3.



Select the Settings > Time menu. You should see a screen like the left figure. You can set the clock manually or use the time signal, Greenwich Mean Time (GMT), carried as part of the digital television broadcast. To use Greenwich Mean Time, take the following steps:

1. Set the Mode option to Auto, then the Time Offset option becomes enabled.
2. Set the Time Offset option to the time difference between your time zone and GMT referring to Table 4.1.
3. To get Greenwich mean time, set the GMT Collection option to one among the followings:

   Normal from all transponders
   CAS Only from transponders of pay services
   User Select from transponders specified by you

   If you set it to User Select, then the Satellite option and the Transponder option become enabled. Select your desired satellite and transponders at those options. With the above settings, the digital receiver will scan all specified transponders one by one until it gets the Greenwich Mean Time.
4. Make sure that your local time is correctly displayed on the Local Time item.

To set the local time manually, set the Mode option to Manual and enter your local time to the Local Time option with the numeric buttons. The time format is *day/month/year 24-hour:minute*.

If daylight saving time is observed in your state at the moment, set the Daylight Saving Time option to On.

NOTE

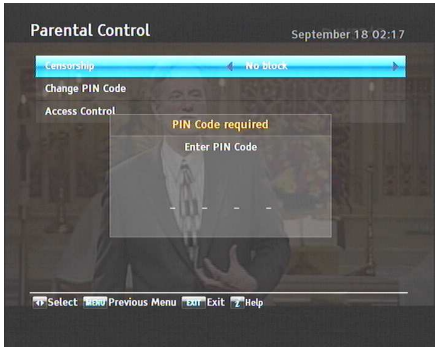
Daylight saving time adds one hour to the time when the option is set to On. When setting the time offset from Greenwich Mean Time, make sure that time offset does not include daylight saving time.

Table 4.1: Time offset table

Time offset	City
GMT − 12:00	Eniwetok, Kwajalein
GMT − 11:00	Midway Island, Samoa
GMT − 10:00	Hawaii
GMT − 09:00	Alaska
GMT − 08:00	Pacific Time US, Canada
GMT − 07:00	Mountain Time US, Canada
GMT − 06:00	Central Time US, Canada, Mexico City
GMT − 05:00	Eastern Time US, Canada, Bogota, Lima
GMT − 04:00	Atlantic Time Canada, La Paz
GMT − 03:30	Newfoundland
GMT − 03:00	Brazil, Georgetown, Buenos Aries
GMT − 02:00	Mid-Atlantic
GMT − 01:00	Azores, Cape Verde Islands
GMT	London, Lisbon, Casablanca
GMT + 1:00	Paris, Brussels, Copenhagen, Madrid
GMT + 2:00	South Africa, Kaliningrad
GMT + 3:00	Baghdad, Riyadh, Moscow, St. Petersburg
GMT + 3:30	Tehran
GMT + 4:00	Abu Dhabi, Muscat, Baku, Tbilisi
GMT + 4:30	Kabul
GMT + 5:00	Ekaterinburg, Islamabad, Karachi, Tashkent
GMT + 5:30	Bombay, Calcutta, Madras, New Delhi
GMT + 6:00	Almaty, Dhaka, Colombo
GMT + 7:00	Bangkok, Hanoi, Jakarta
GMT + 8:00	Beijing, Perth, Singapore, Hong Kong
GMT + 9:00	Tokyo, Seoul, Osaka, Sapporo, Yakutsk
GMT + 9:30	Adelaide, Darwin
GMT + 10:00	Eastern Australia, Guam, Vladivostok
GMT + 11:00	Magadan, Solomon Islands, New Caledonia
GMT + 12:00	Fiji, Auckland, Wellington, Kamchatka

4.4 Parental control

In general, television programmes are classified according to the level of violence, nudity and language of their content. When you are watching a programme, you can check its programme classification on the information box. For the information box, see §5.2.3. You can prevent your children from watching specific programmes by specifying a maximum permissible level.



Select the Settings > Parental Control menu. You should see a screen like the left figure, and you will be asked your Personal Identification Number (PIN). The number is initially set to '0000' as default.

If you wish to block programmes for viewers aged 15 or above, set the Censorship option to 15 (age). Setting it to No block blocks no programme; on the other hand, setting it to Total block blocks every programme.

NOTE

If a programme has no rating information, your censorship setting will not take effect.

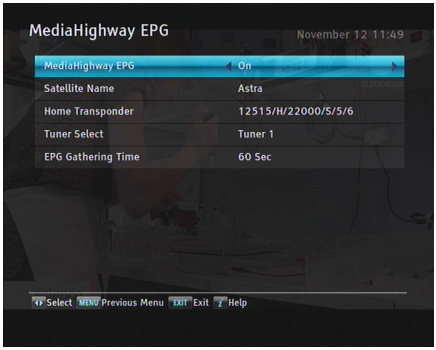
If anyone is trying to watch a programme that is of or above the censorship setting, the person has to enter the personal identification number to override. To change the number, select the Change PIN Code menu, then a box pops up, asking a new PIN. Enter a desired number twice for confirmation.

You can also restrict uses of some menus. Selecting the Access Control menu displays a list of menus that you can lock. If the

Time item is set to Locked, you have to enter the PIN when accessing the Time menu. If you enter a wrong number, you cannot use the menu. To release a locked item, set it to Unlocked.

4.5 To use MediaHighway programme guide

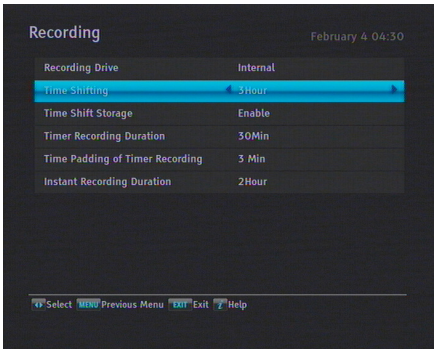
Almost every service provider would provide the electronic programme guide. However, you can get more abundant programme information from a specific transponder that provides only programme guides. For detailed description about electronic programme guide, see §5.3. MediaHighway stands for the transponder dedicated to the electronic programme guide.



If you want to use this feature, select the Settings > MediaHighway EPG menu. You should see a screen like the left figure.

Set the MediaHighway EPG option to On to activate this feature, then the other options become enabled. Set the Satellite Name and Home Transponder options to available ones, and set the Tuner Select option to the tuner through which to receive the specified transponder. The digital receiver will try to receive programme guide within the duration specified at the EPG Gathering Time option.

4.6 Options for recording



To set the options for recording, select the Settings > Recording menu. You should see a screen like the left figure.

To enable the time-shift function, you should set the Time Shifting option to anything other than Disable. The available range for this option is 30 minutes to 5 hours. You will have the latest of the current programme as long as the duration specified at this option.

You can record a programme into both an external and the built-in hard drive. If you want to record a programme into an external hard drive, set Recording Drive option to External; otherwise, set this option to Internal.

If you set the Time Shift Storage option to Enable, the time-shifted programme will be saved in the TimeShift folder of the hard drive.

You can set the duration of the timer recording. Set the Timer Recording Duration option as you desire. Its available range is 10 minutes to 3 hours.

Time padding is the feature of adding extra recording time to the beginning or end of a programme, so that you do not miss any part of the programme. Set the Time Padding of Timer Recording option as you desire.

You can adjust the duration of the instant recording. Set the Instant Recording Duration option as you desire. Its available range is 30 minutes to 5 hours.

4.7 Options for playback

To set the options for playback, select the Settings > Playback menu. You should see a screen like the left figure.

If you want to play back a recorded file from beginning, set Starting Position option to Beginning. To play back a recorded file from the part where you were watching, set this option to Continuing.

To make a descrambled copy from a scrambled recording, set the Descramble Mode option to Auto Recording; otherwise, set this option to Normal.

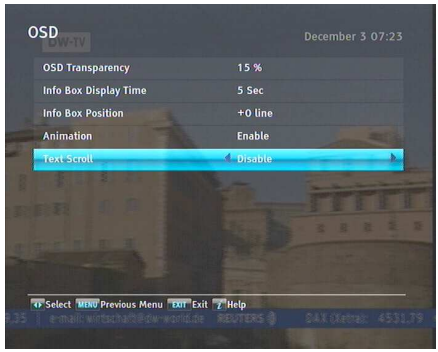
You can adjust the jump interval that is for playback. Set the Jump Time Interval option as you desire. Its available range is 10 seconds to 3 minutes.

If you want to enjoy more levels of playback speed, set the Trick Mode Level option to 2x, 4x, 8x, 16x, 32x, 64x; otherwise, set it to 4x, 16x, 64x.

NOTE

You can enjoy video files such as DivX with the digital receiver. However, the above options might not be effective depending on the video files to be played. For detailed description on how to play back a video file, refer to §8.4.

4.8 Options for on-screen display



To set the options for the on-screen display (OSD), select the Settings > OSD menu. You should see a screen like the left figure.

To adjust the transparency level of the OSD, set the OSD Transparency option as you desire. Its available range is 0 to 50 percent.

To adjust the display time of the information box, set the Info Box Display Time option as you desire. Its available range is 1 to 30 seconds. If you set this option to No Info Box, the information box will not be displayed when you switch services. However, pressing the [*i*] button will display the information box. If you set this option to Never Hide, the information box will always be displayed. For the information box, see §5.2.3.

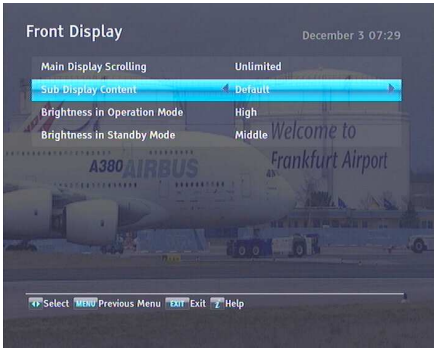
In addition, you can raise or lower the position of the information box. Set the Info Box Position option as you desire. Its available range is -10 to $+3$ lines. The higher you set the option, the lower the information box will be positioned.

To use an animation effect when changing menu, set the Animation option to Enable.

If any service's name is too long to fit the width of the service name column on the services list screen, you can get it to scroll by setting the Text Scroll option to anything other than Disable. With the choice of Full Scroll, it will be fully scrolled until its end disappears; with the choice of Part Scroll, it will be scrolled

only to its end.

4.9 Options for the front display



To set the options for the front display, select the Settings > Front Display menu. You should see a screen like the left figure.

The front display shows the currently viewed service's number and name. If any service's name is too long to fit the width of the service name column, you can get it to scroll by setting the Main Display Scrolling option to anything other than Disable. With the choice of Unlimited, it will be repeatedly scrolled; with the choice of Once, it will be scrolled only once. If you want to have the current time displayed instead of the service number, set the Sub Display Content option to Time.

You can also adjust the brightness of the front display in active mode and standby mode by setting the Brightness in Operation Mode option and the Brightness in Standby Mode option to any as you like.

4.10 Adjusting the size of picture-in-picture

You can adjust the size of picture-in-picture screen. Select the Settings > Miscellaneous menu, then set the Default PIP Size option as you desire. For the picture-in-picture, see §5.6.

4.11 Options for Photo Album

You can change a time interval and effect of slideshow in the photo album. For the photo album feature, see §8.3.

To change the time interval of slideshow, select the Settings > Miscellaneous menu, and then set the Slideshow Time Interval option as you desire. Its available range is 3 to 10 seconds.

To change the effect of slideshow, select the Settings > Miscellaneous menu, and then set the Slideshow Effect option as you desire. There are four types of effects as follows:

Overlap overlaps the current picture and a following picture.

Cover covers the current picture with a following picture.

Move moves the current picture and displays a following picture.

Mosaic displays a following picture with a mosaic effect.

To use those effects ramdomly, set this option to Random. The default value is Random.

4.12 Options for standby mode

You can have the current time displayed on the front display in standby mode. Select the Settings > Miscellaneous menu and set the Standby Mode option to Active; otherwise, set it to Passive. When you set the Standby Mode option to Active, the receiver can also bypass the signal from the antenna. To save power consumption, you might as well set the Automatic Power Down option to Enable. With this option enabled, the receiver will be turned off automatically when there is no manipulation over three hours.

Chapter 5

Every Day Use

5.1 Volume control

Use the VOLUME− and VOLUME+ buttons to alter the volume to a comfortable level. You may need to adjust the volume on your television set too. To temporarily switch off the sound, press the button. Press it again to restore the sound to previous level.

5.2 Watching television

To change services, press the CHANNEL− or CHANNEL+ button. Pressing the button switches to the previously viewed service. In addition, you can switch to your desired service by entering its service number with the numeric buttons. You can also select a service to watch in the services list.

5.2.1 The services list

To view the services list, press the OK button.

On the services list, you can see the service information as follows:

- Service number and name
- Transmitting satellite
- Receiving tuner: T1 stands for the first tuner; T2 stands for the second tuner.
- Multiplex information

A dollar sign (**$**) may be marked on some entries, indicating pay service. To watch pay services, you need a subscription card.

To select a desired service, put the highlight bar on its entry with the ◯ or ◯ button and press the OK button, then the selected service will be presented.

Pressing the ◯ or ◯ button skips over 10 entries up or down. Entering a service number with the numeric buttons puts the highlight bar on its entry.

You can switch between the television services list and the radio services list by pressing the ▭/▭ button.

To sort the services list by service name, press the F2 button. Pressing this button once more makes it sorted by service number.

Pressing the Option button displays additional options, with which you can do the following:

- Select your desired satellite at the Satellite option, then only services provided by the selected satellite will be listed.
- Select your desired tuner at the Tuner option, then only services provided through the selected tuner will be listed.

- By setting the Show Provider option to On, you can view service entries by groups of broadcasters.
- To change the name of the highlighted service, select the Rename option, then appears the on-screen keyboard with which you can enter a new name. See §6.3 as to how to use the on-screen keyboard.
- You can prevent other family members from watching the highlighted service by setting the Lock option to Locked. You have to enter your personal identification number to watch or unlock it.
- To delete the highlighted service, select the Delete option, then you get asked for confirmation. With the choice of Yes, the service will be deleted. If you want to restore it as before, you have to perform service search again. See §3.1 for service search.
- To add the highlighted service into a favourite group, select the Add to Fav option, then the favourite groups will be displayed. Put the highlight bar on a desired group and press the OK button.
- You can additionally sort the services list with the Sorting option as follows:

  Default by service number
  Alphabetic by service name
  Satellite by satellite
  FTA–CAS from free services to pay services
  CAS–FTA from pay services to free services
  Provider by broadcaster
  Fav–NoFav from favourite services to unfavourite services.
  Transponder by transponder

5.2.2 The favourite service lists

You can select a service on a favourite list as well as on the services list.

To display the favourite lists, press the F2 button at the services list screen. For the services list, see §5.2.1.

To select a favourite list, put the highlight bar on a desired favourite group list and press the OK button, then the selected favourite group's services will be listed.

As to how to edit the favourite lists, refer to §6.2.

To select a favourite service, put the hightlight bar on a desired service and press the OK button, the it will be displayed. To select another group, press the ↺ button.

After you have selected a favourite service, if you then switch to another service using the ◁ or ▷ button, it will be also another favourite service of the selected group. The digital receiver will remind you what group you have selected by displaying its name at the top right of the screen whenever you switch services.

To return to the services list, press the F1 button. Besides that, you can add or delete a favourite group or service.

To add the service you are currently watching into a favourite group, press the Option button to display additional options, and then select Add this service item.

To remove the currently highlighted favourite grop or service, select Delete item in the additional option box, then you get asked for confirmation; with the choice of Yes, it will be removed.

5.2.3 Viewing programme information

Pressing the *i* button displays the information box, on which you can see all of the following:

- Service number and name
- Transmitting satellite
- Receiving tuner
- Transponder information
- Signal level and quality
- Programme name
- Programme classification sign
- Programme summary
- Broadcasting time
- Current time

In addition, you might see the following symbols:

- Subtitle symbol (▭) if subtitle tracks are provided on the current programme.
- Teletext symbol (▤) if teletext pages are provided on the current service.
- Dolby Digital symbol (◧◧ D) if a Dolby Digital audio track is provided on the current programme.
- Lock symbol (🔑) if the current service is locked.
- Dollar symbol (**$**) if the current service is a pay service.
- Multifeed symbol (▣) if the current programme is provided as a multifeed programme. To use this feature, refer to §5.4.

If the electronic programme guide is provided on the current service, you can see the information about the current and next programmes with the ◎ or ◎ button. You can also see the information about other services with the ◎ or ◎. In this case, you can change a service by pressing the OK button.

Pressing the *i* button once more displays detailed information about the current programme. To hide the information box, press the EXIT button.

5.2.4 Selecting audio tracks

Some programmes are provided with audio tracks in one or more languages. Pressing the [🔊?] button displays available audio tracks. Once you select an audio track, that track will be heard. In addition, you can enjoy audio tracks in four sound modes: Stereo, Mono, Left or Right. However, if a multifeed programme is provided at the moment, video tracks will be displayed. In this case, you have to press the [🔊?] button once more to select an audio track.

5.2.5 Selecting subtitle tracks

Some programmes are provided with subtitle tracks in one or more languages. If the current programme provides subtitle tracks, the subtitle symbol ([—]) will be marked on the information box. Pressing the [💬] button displays available subtitle tracks. Once you select a subtitle track, it will be displayed.

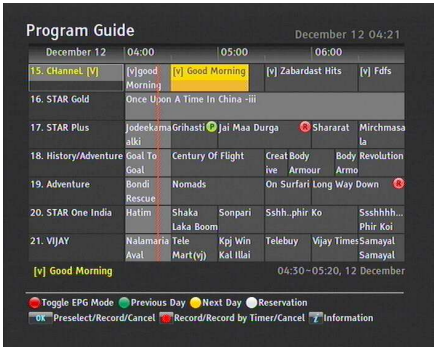
5.2.6 Viewing teletext

On some services, such information as weather reports, news or stock quotations is provided by means of teletext. If the current service provides teletext, the teletext symbol ([≡]) will be displayed on the information box. Press the [▤] button to view teletext pages.

Select a page to view by entering its page number with the numeric buttons. You can zoom into a teletext page with the [F3] button, and adjust its transparency level with the [F4] button. To clear the teletext screen, press the [EXIT] button.

5.3 Viewing electronic programme guide

The Electronic Programme Guide (EPG) shows the current and scheduled programmes that are or will be available on each service with a short summary for each programme.



Pressing the GUIDE button displays the electronic programme guide, on which you can see the following:

- Scheduled programmes
- programme summary
- Broadcasting date
- Broadcasting time

To see detailed information of a desired programme, put the highlight bar on the programme with the ◎ or ◎ button and press the *i* button. To switch to another service, press the ◎ or ◎ button.

You can travel over previous days with the F2 button, and can travel over next days with the F3 button.

To see the programme guide for radio broadcasts, press the ▭/▭ button. To switch it back, press the ▭/▭ button again.

Pressing the F1 button will rearrange the form, swapping the columns and rows. To switch it back, press the F1 button again.

You can make a timer recording on the electronic programme guide. See §7.1.3 for detailed description.

5.4 Watching multifeed programme

Some broadcasts such as sports channels can provide a variety of perspectives on a programme at the same time. We call it a multifeed programme. You can select and watch a perspective you prefer.

If a multifeed programme is provided on the current service, the multifeed symbol (▣) will be marked on the information box. Press the ▭? button, then available video tracks will be listed. Once you select one, it will be presented. At this time,

you have to press the [?] button once more to select audio tracks.

5.5 Using time-shift

You can pause and resume a live television programme, and even rewind and replay it. When you are watching a programme and you miss something, you can rewind and replay it. Or when your attention is needed elsewhere, you can pause a live TV and resume a short time later without losing any of the programme.

When you do this, you are no longer watching the live programme, instead you are watching a delayed presentation. This is called time-shifted television. You can skip commercials until you catch up to the live broadcast.

In order to use the time-shift feature, set the Time Shifting option to desired duration of time. Then the digital receiver will archive the programme as much time as you set in the option. See §4.6.

The time-shift will be reset each time you change to another service. With the time-shift, the following operations are possible:

- To go back in time, hold down the [◂◂] button; to go forward, hold down the [▸▸] button. The progress bar is displayed momentarily with a preview window.
- You can navigate using the progress bar, refer to §7.3.1.

- You can jump backward and forward by pressing the F4 and F3 buttons. You can change the jump time at the Jump Time Interval option. See §4.7.
- You can change playback speed. See §7.3.2 for slow motion. For fast motion, see §7.3.3.
- To check your current position in time-shift, press the *i* button. The time difference compared to live programme is displayed momentarily in top right corner of the screen. A value of −02:00 means two minutes behind the live programme.
- To make a recording of the time-shifted programme,, see §7.1.4.
- To end time-shift, press the ■ button. The live programme will be displayed.

NOTE

You can adjust some options for time-shift. Refer to §4.6.

5.6 Viewing in the picture-in-picture screen mode

You can watch two services at the same time with one of them presented in a sub-picture. We call this feature picture-in-picture. The instructions on how to use the picture-in-picture feature are as follows:

1. Press the F1 button to display a sub-picture, on which another service will be presented.

2. Pressing the F1 button once more minifies the sub-picture, and pressing it once again hides the sub-picture.
3. To display the services list for the sub-picture, press the ⏭ button.

   NOTE

   When a recording is in progress, the available services in the services list may be limited.

4. Pressing the ⏮ button moves the sub-picture counter-clockwise, and pressing the ⏭ button moves it clockwise.
5. Pressing the SAT button swaps the main picture with the sub-picture. Even when you play back a recording, you can watch a live programme in the sub-picture. However, you cannot swap the pictures in that case.
6. If both pictures are pay services, only the main-picture will be presented.

Chapter 6

Organising Services

6.1 Editing the services list

You would have got the services list after service search. You can rename, move, lock or delete service entries on the services list.

Select the installation > Edit Services > Edit Service List menu. You should see a screen like the left figure. There are editing options on the left column and service entries on the right column.

Once you put the highlight bar on a desired option on the left column and press the OK button, you can select a desired service to edit on the right column. To go over to the other column, press the F1 button.

To edit the radio services list, press the button, then radio

service entries will be listed on the right column. To switch back to the television services list, press it again.

To change the name of a service, select the Rename and select a desired service; then the on-screen keyboard appears. See §6.3 as to how to use the on-screen keyboard.

Unlike analogue broadcasts, each service does not have a proper service number in digital broadcasts. Service numbers are just assigned to services in the order that they were found in service search. So you can reassign a service number by moving a service entry. To move a service entry, select the Move option and select a desired service; then the selected service becomes darker. As you move it up or down, it gets renumbered according to the position. Press the OK button to fix it.

You can lock some services to prevent your children from watching them. To lock a service, select the Lock option and select a desired service; then the selected service gets marked with a lock symbol (🔑) on it. If anyone tries to watch a locked service, the person has to enter the personal identification number that is set to the Change PIN Code option. See §4.4 for this option. Pressing the OK button on a locked service entry turns it back to be unlocked.

To delete a service, select the Delete option and select a desired service with the OK button, and then press the EXIT button; you get asked for confirmation. If you select Yes, the selected service will be deleted. If you want to undo the deleted service, there is nothing you can do but perform a service search again.

Once you select the Sort option on the left column, sorting options are displayed as follows:

Default by service number
Alphabetic by service name
Satellite by satellite
FTA–CAS from free services to pay services
CAS–FTA from pay services to free services

Fav–NoFav from favourite services to unfavourite services
Provider by broadcaster
Transponder by transponder

6.2 Editing the favourite lists

You can make your own favourite service lists. In fact, you can define multiple favourite service lists, each being a 'group' of chosen services.

Select the installation > Edit Services > Edit Favorite List menu. You should see a screen like the left figure. There are three columns:

- Group list (left)
- Favourites list (centre)
- Services list (right)

The services list contains all available services, whereas the favourites list contains only chosen services that have been added to the highlighted group. As you move the highlight bar up or down on the group list, favourite services belonging to the highlighted group get shown in the favourites list.

You can add up to 30 groups. To add a new group, select the NEW item in the group list, then the on-screen keyboard appears. See §6.3 as to how to use the on-screen keyboard.

To rename a group, put the highlight bar on the group entry you want and press the F2 button, then the on-screen keyboard likewise appears.

To delete a group, put the highlight bar on the group entry you want and press the F3 button, then a message box appears, asking you for confirmation. With the choice of Yes, it will be deleted.

You can add a favourite service to a group by taking the following steps:

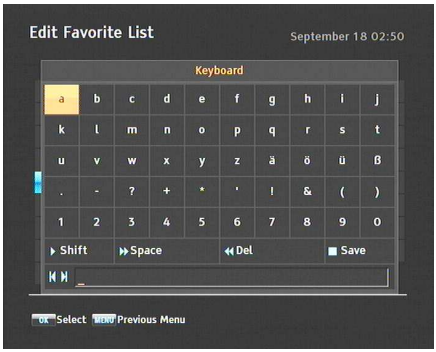
1. Put the highlight bar on a desired group entry in the group list and press the OK button to select it. The highlight bar then moves to the services list.
2. To add a service to the selected group, put the highlight bar on a desired service entry and press the OK button. The selected service entry gets added to the favourite list. Repeat this step to add more entries.
3. Press the F1 button, and the highlight bar gets moved to the favourite list. You can delete a favourite entry with the OK button.
4. To select another group, press the F1 button again, then the highlight bar gets moved to each column.

Furthermore, you can rearrange a group's favourites by moving a favourite entry. To move a favourite entry, put the highlight bar on the favourite entry you want and press the F2 button. Move it to a desired place and press the OK button.

To add radio services, press the button, then radio service entries get listed in the services list. To recall the television services list after adding radio services, press the button again.

As to how to use the favourite service lists you organised, refer to §5.2.2.

6.3 How to use on-screen keyboard


Edit Favorite List
September 18 02:50
Keyboard
a b c d e f g h i j
k l m n o p q r s t
u v w x y z ä ö ü ß
. - ? + * ' ! & ( )
1 2 3 4 5 6 7 8 9 0
Shift
Space
Del
Save
OK Select
MENU Previous Menu

You can move the highlight key horizontally with the and buttons and vertically with the and buttons. Pressing the OK button on a key enters its letter in the input line.

To type a space, select the Space key or alternatively press the ▶▶ button. To type lower case letters or numerals, select the Shift key or alternatively press the ▶ button. To delete a letter, put the cursor to the right of the desired letter on the input line and then select the Del key or alternatively press ◀◀ button. You must select the Save key or alternatively press the ■ button to complete your typing; otherwise if you press the EXIT button, it will not be saved.

You can also type in with the provided wireless keyboard.

Chapter 7

Recording and Playback

You can record TV programmes into an external hard drive as well as the built-in hard drive.

NOTE

To use an external hard drive, you must connect the external hard drive to the USB port or the eSATA port of the digital receiver. You cannot play back the recordings with a regular MPEG player on your computer because they are formatted differently from the standard MPEG format. Visit http://www.kmplayer.com where you can find an MPEG player able to play them back.

CAUTION

Do not disconnect the external hard drive while recording or playing back. It may cause damage to recorded programmes. You should disconnect the external hard drive in standby mode only.

You can record a service while watching another one with this digital receiver. You can record two different services while

watching another one only if two among the services are provided through the same transponder. The digital receiver has two tuners so that you can enjoy the following:

- While playing a recording back, you can watch a service in the sub-picture using the picture-in-picture feature.
- You can record two different services while playing back a previously recorded programme.
- You can record two different services while watching one of them using the time-shift feature. See §5.5 for the time-shift feature.
- You can even record two different services while watching two other different services—only if two or more services are provided in a same transponder and the other services are provided in another same transponder. In this case, you can watch two services at the same time using the picture-in-picture feature. See §5.6 for the picture-in-picture feature.

7.1 Recording a programme

Once a recording gets started, a symbol like the left figure will be displayed at the top right of the screen for a few seconds.

When you are watching a different service from the service being recorded, you will see a number on the centre of the symbol, this indicates the order that the recording has started. To record two programmes simultaneously, two tuners are allocated for the recording. Therefore, you can only change to a limited number of services while the two programmes are being recorded.

CAUTION

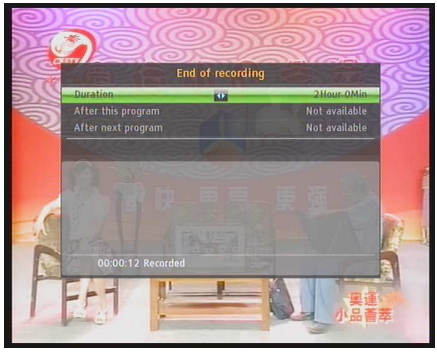
Do not move the digital receiver nor pull out the power plug while it is running. It may cause damage to recorded

programmes. Topfield is not responsible for damages inflicted on files that are stored on the hard drive.

7.1.1 Instant recording

To instantly record a programme you are watching at present, press the ● button.

Pressing the ⏸ button will not pause the current recording like it does with a video recorder. Instead, pressing the ⏸ button will pause the live show and begin time-shifting within the current recording even with the Time Shifting option disabled. In short, it is still possible to pause a recording, but literally recording continues in the digital receiver.



After a recording has started, pressing the ● button displays a menu like the left figure, in which you can set the recording duration.

To specify an arbitrary recording duration, set the Duration option as you desire with the ◀ and ▶ buttons and press the OK button; the recording will end at the specified time.

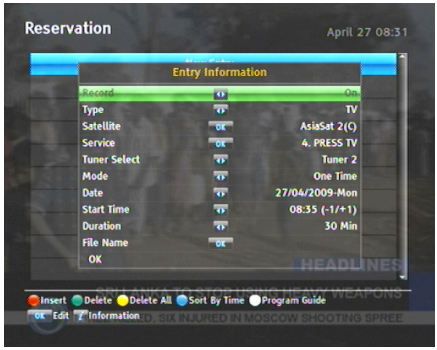
If the information about the next programme is provided by the electronic programme guide, the After this program and After next program options will be enabled. Once the After this program option is selected, the current recording will stop at the time when the current programme is scheduled to end. Likewise, once the After next program option is selected, the current recording will stop at the time when the next programme is scheduled to end.

To stop recording, press the ■ button; then a box like the left figure appears, which shows the programmes currently being recorded. Select recording by using navigation buttons then press OK button to stop the recording.

While a recording is going on, you can watch or record another service. To additionally record another service, switch to the service you want to record, and press the ● button. Once a recording is started, it is put on the recorded programme list even though it is not finished yet. The recording file is named the program name if available or after its service name with a suffix of a number. To view the recorded programme list, press the ▤ button or alternatively select the Recording > Recorded Program menu. See §7.2 for detailed description about the recorded programme list.

7.1.2 Timer recording

You can set a programme to be recorded at a specific time. Even if the digital receiver is in standby mode, it will switch into active mode and start recording at a specified time. When the recording comes to the end, the digital receiver will switch back into standby mode again in one minute. However, if you press any button on the remote control or on the front panel even just one time, the digital receiver will not switch into standby mode.



To add a timer recording, select the Recording > Reservation menu, then the timer list will be displayed. To add a new timer event, press the F1 button, and a box like the left figure appears. Take the following steps:

1. Set the Record option to On to make a recording. If this option is set to Off, the digital receiver will turn on at the specified time but not record; instead, you may record with your video recorder or suchlike in this case.
2. You may have two sources for recording, TV and radio. Set the Type option to your desired source.
3. Set the Satellite option to the satellite which transmits the service you want. Pressing the OK button on this option displays a satellite list, from which you can select your desired satellite. Set the Tuner Select option to a tuner to receive your desired service.
4. Set the Service option to the service which provides the programme you want. Pressing the OK button on this option displays a services list, from which you can select your desired service.
5. Set the Mode option as you desire. There are five timer modes:

   One Time means literally 'one time'.
   Every Day means literally 'every day'.
   Every Weekend means 'Saturday and Sunday every week'.
   Weekly means 'one day every week'.
   Every Weekday means 'from Monday to Friday every week'.

If your favourite programme is broadcast at weekends and you wish to record every episode of the programme, set the Mode option to Every Weekend.

6. Set the Date option to a desired date, on which the digital receiver will turn on. The date format is *day/month/year-day of the week*.

   Set the Start Time option to a desired time, at which the recording will be started. The time format is *hour:minute*.

7. Set the Duration option to a desired time, in which the recording will be finished.

8. Pressing the OK button on the File Name option displays the on-screen keyboard, with which you can specify a file name for the timer recording. If you do not specify anything, it will be named after the service name. See §6.3 as to how to use the on-screen keyboard.

9. To set a recording reservation with the above settings, select the OK item; otherwise, it will not be saved and will not occur.

You can also edit or delete timer events in the timer list. To edit a timer entry, put the highlight bar on the entry you want and press OK button; then appears a box in which you can change its settings in the same manner as making a new one.

To delete a timer event, put the highlight bar on the entry you want to remove and press the F2 button, then you get asked for confirmation. With the choice of Yes, it will be deleted. To delete all timer event, press the F3 button.

You can sort timer events by time with the F4 button.

7.1.3 Scheduling recordings using the programme guide

If the electronic programme guide is properly provided, you can make timer events on it. The instructions on how to make timer recordings using the electronic programme guide are as follows:

1. Press the GUIDE button to display the electronic programme guide.
2. Select a programme you want to record with the navigation buttons.
3. To make a timer event without recording, press the OK button; the letter **P** is displayed. To make a timer event with recording, press it once more or alternatively press the ● button, then the letter **R** is displayed.
4. Pressing the OK button once more will cancel the timer.

7.1.4 Recording a time-shifted programme

While watching a programme with time-shift, you can record it by performing the following steps:

1. Press the ▶ button to display the progress bar.
2. To move to the beginning of the desired scene, hold down the ◀◀ or ▶▶ button until it is reached.
3. Press the ● button to start recording. The time-shift buffer from that position onwards will now be recorded.
4. Press the ■ button to stop recording.
5. Press the ■ button once more to stop time-shift.

See §5.5 for detailed description about the time-shift feature.

7.1.5 Recording a pay service programme

You can record a pay service programme without the subscription card. However, you need the subscription card to play it back because it has not been descrambled. So it is recommended to record pay service programmes with a proper subscription card so that they can be descrambled and recorded. In that case, you can enjoy them without the subscription card like free services.

To record a programme of a pay service in descrambled form, take the following steps:

1. Select a programme of a pay service you want to record.
2. Make sure that the subscription card is inserted in the slot on the front of the digital receiver.
3. Start recording.
4. Do not switch to other service nor use time-shift until recording is finished.

NOTE

If you switch to other service or use time-shift in the middle of recording a pay programme, it will be recorded without descrambling from that moment. Even if the recording is only partially descrambled, you need the subscription card to play it back.

7.2 File archive

When a programme is recorded, it is stored as a file on the hard drive of the digital receiver. You can select a recording to play back from the recorded programme list.

Select the Recording > Recorded Program menu or alternatively press the [▤] button to display the recorded programme list. The file information is comprised of the following elements: file number, file name, recording time, running time, file size and so on.

You can play, move, delete, rename and lock a recording file. You can also sort the recording files by file name, running time or file size. In addition, you can make a new folder.

7.2.1 To delete a recording

To delete a recording, put the highlight bar on it and press the [F4] button, then you get asked for confirmation. With the choice of Yes, it will be deleted.

7.2.2 To sort recordings

To sort the recordings, take the following steps:

1. Press the [Option] button to display additional options.
2. Set the Sorting option to Alphabetic, Time or Size as you want.
3. Press the [EXIT] button.
4. They will be sorted by the specified option.

7.2.3 To lock a recording

To lock a recording so that other persons cannot play or delete it, take the following steps:

1. Put the highlight bar on a desired recording.
2. Press the [Option] button to display additional options.

3. Set the Lock option to Locked.
4. Press the EXIT button.
5. The lock symbol ( ) is displayed on it.

If you select a locked recording to play it back, you will be asked for your personal identification number.

7.2.4 To rename a recording

To change a recording's name, take the following steps:

1. Put the highlight bar on a desired recording.
2. Press the Option button to display additional options.
3. Select the Rename option, and the on-screen keyboard appears. Change the name and save it. See §6.3 as to how to use the on-screen keyboard.

7.2.5 To make a new folder

To make a new folder, press the F2 button, then a new folder named GROUP # is created. You can change its name in the same manner as renaming a recording. See above.

7.2.6 To move a recording to another folder

To move a recording to another folder, put the highlight bar on a desired recording and press the F3 button. If an external hard drive is connected to the digital receiver, you get asked to select between the built-in and external hard drive. Select Internal, then the folders are listed. Once you choose a folder, the recording is moved to it.

7.3 Playing back a recording

When a programme is recorded, its additional contents such as audio track or subtitle track are also recorded together. So you can enjoy them while playing back a recording.

The instructions on how to play a recording are as follows:

1. Select the Recording > Recorded Program menu or alternatively press the [▤] button to display the list of recorded programmes.
2. Put the highlight bar on a desired recording and press the [OK] button, then an option box pops up.
3. To play from beginning, set the Starting Position option to Beginning; to play from the point that you have stopped at the last time, set it to Continuing. To start playback, select the Play item.
4. To stop playback, press the [■] button.

During playback, you can enjoy the following tricks:

- To see the detailed information about the currently played recording, press the [*i*] button; then the information box appears and shows its file name, running time, programme information, and so on.
- To pause playback, press the [⏸] button. To resume it, press the [▶] button.
- To view the progress bar, press the [▶] button; to hide it, press the [▶] button again.
- When the progress bar is hidden, you can move to a desired scene by entering a progress percentage with the numeric buttons.

7.3.1 To navigate using the progress bar

First press the [▶] button to display the progress bar.

- To go forward, hold down the [◎] button; to go backward, hold down the [◎] button.
- If there are no bookmarks, you can jump forward by the minute set to the Jump time Interval option with the [F3] button. See §4.7 for that option. Refer to §7.3.4 as to how to bookmark a position.
- To jump to the beginning, press the [⏮] button.

- To jump to the end, press the ⏭ button.
- To hide the progress bar, press the ▶ button again.

7.3.2 To play in slow motion

To watch in slow motion during a playback, press the ⏯ button. If you press it repeatedly, the playback speed changes in 4 steps: 1/2, 1/4, 1/8 and 1/16 times. To resume normal speed, press the ▶ button.

7.3.3 To play in fast motion

To watch in fast motion during a playback, press the ⏩ button. If you press it repeatedly, the playback speed changes. To resume normal speed, press the ▶ button.

You can play not only forward but also backward in fast motion. To play backward, press the ⏪ button. If you press it repeatedly, the playback speed changes. To resume normal speed, press the ▶ button.

You can change the playback speed in 3 steps (4, 16 and 64 times) or in 6 steps (2, 4, 8, 16, 32 and 64 times). See §4.7.

7.3.4 To make a bookmark

You can mark favourite parts of a recording by creating bookmarks and then jump to them in sequence. Bookmarks are stored with the recording so that you can use them again afterwards. To make bookmarks, take the following steps during playback:

1. Press the ▶ button to display the progress bar.

2. To add a bookmark, press the F2 button at a desired scene, then you will see a small pointer appear above the progress bar like in the picture above.
3. To jump forward to the next bookmark, press the F3 button.

7.3.5 To play back a recording repeatedly

You can play back a recording repeatedly both in whole and in part.

To play back in whole, press the ⏭ button when the progress bar is hidden, then the repetition symbol (🔁) is displayed on the information box. To cancel it, press the ⏭ button again.

To play back in part, take the following steps:

1. Press the ▶ button to display the progress bar.
2. Move to the beginning scene of the part you want to play repeatedly by holding down the ◀◀ or ▶▶ button.
3. Press the ⏭ button, then the pointer starts to blink.
4. Move to the end scene; the selected part is marked in black.
5. Press the ⏭ button again to start repeated playback.
6. To cancel it, press the ⏭ button when the progress bar is displayed.

7.3.6 To play back recordings in sequence

You can play several recordings continuously in sequence by performing the following steps:

1. Press the ☰ button or alternatively select the Recording > Recorded Program menu to display the list of recorded programmes.
2. Select each desired recording with the F1 button. Once a recording is selected, it gets numbered.
3. Press the ▶ button to start playback.

4. The selected recordings are played in the sequence that they are numbered.
5. To jump to the beginning of the next recording in the queue, press the ▶ button to display the progress bar, then press the ▶| button.

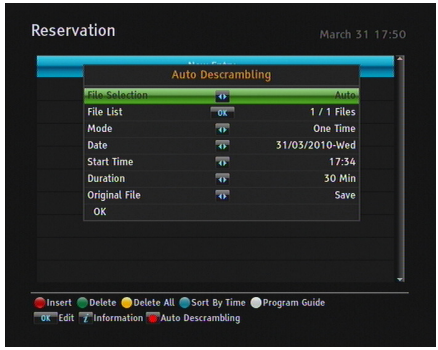
7.3.7 To play back a scrambled recording

If you have recorded a programme of a pay service with the subscription card, you can play it as freely like that of a free service. Otherwise you need the subscription card to play it back because it has been recorded without descrambling even though it may have been partially descrambled.

On the recorded programme list, a purely green **$** indicates the recording has been wholly descrambled; on the other hand, a yellowish green **$** indicates it has been partially descrambled, and a purely yellow **$** indicates it has not been descrambled at all.

There are two ways to fully descramble a scrambled recording so that you can play it back without the subscription card later on. One is to make a copy while playing it back to the end; the other is to make the copy job to be carried out as a timer event.

The first method is very easy to carry out. When you select an entry to play in the recorded programme list, the playback option box appears. Simply set the Descramble Mode option to Auto Recording. Then a descrambled copy will be created while you are watching it.



In the same manner as making a timer recording, you can make a timer descrambling. See §7.1.2 for timer recording. To begin with, you should move recordings you want to descramble to the AutoDescramble folder. Press the ● button in the timer list to launch the auto-descrambling option box.

The most recommended would be to set the File Selection option to Auto, Mode to Every Day, and Original File to Save. From now on, the only thing you have to do for auto-descrambling is to move scrambled recordings to the AutoDescramble folder every time you find them.

NOTE

You should get the scrambled recordings descrambled as soon as possible. You could lose the chance to descramble forever if you hang around too long because broadcasting operators frequently changes the key signal for descrambling.

7.4 Editing a recording

You can cut out or save a part such as commercial from a recording by performing the following steps:

1. Press the ▶ button to display the progress bar during a playback.
2. Move to the beginning scene of the part you want to edit by holding down the ⏪ or ⏩ button.
3. Press the ⏭ button, then the pointer starts to blink.
4. Move to the end scene; the part is marked in black.

5. Press the F4 button, then the edit options are displayed.
6. If you choose the Cut option, it will be removed from the original recording and discarded.
7. If you choose the Save option, the cut will be saved in a new file which is named after the original recording with a suffix of 'CUT' and a number.

NOTE

Edited files cannot be fast-forwarded and rewinded. The F4 and F3 buttons are still active for this feature.

7.5 Copying a recording

You can record the file in whole or in part during a playback by performing the following steps:

1. Start playback of a recording you want.
2. Move to a scene from which you want to start copying by holding down the or button.
3. Press the button, then it will be copied in a new file which is named after the original recording with a suffix of 'COPY' and a number.
4. To stop copying, press the button.

7.6 Formatting the hard disk

If a new hard drive is installed, it must be formatted because you can neither record nor use time-shift with an unformatted hard disk.

You can delete permanently all contents stored in a hard drive by formatting it. Select the Installation > System Recovery > Format Hard Disk menu, and then select the hard drive you want to format. To format the built-in hard drive, select the option to Internal; otherwise to format the external hard drive

which is connected to the digital receiver, select the option to External. With pressing the OK button, you get asked for confirmation. Formatting will start with the choice of Yes.

NOTE

The hard drive on the digital receiver will be formatted in the JFS file system.

Chapter 8

Entertainment

This digital receiver provides several special features for entertainment.

NOTE

To fully enjoy all of the features described in this chapter, you had better configure the network settings properly. As to how to configure the network settings, refer to §9.2.

8.1 Copying files

NOTE

If your external hard drive is formatted in the FAT16/32 or NTFS, it can only be read. To enable to write and read, the hard drive must be formatted in the JFS or Ext2/3 file system. As to how to format hard drive on the digital receiver, refer to §7.6.

You can copy files between the built-in hard drive and external hard drive.

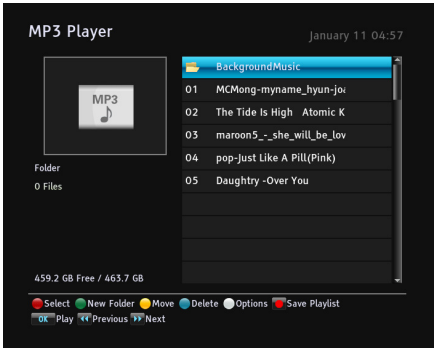
To copy from the internal to the external hard drive take the following steps:

1. Connect an external hard drive to the digital receiver.
2. Press the [≡] button and then press the [◀◀] or [▶▶] button to select a desired file list except the External list.
3. Put the highlight bar on a desired file and press the [F3] button, then you get asked to select between the built-in and external hard drive.
4. Select External, then the folders are listed.
5. Select a destination folder and press the [OK] button, then the selected file will be copied into the external hard drive.

To copy from the external to the internal hard drive, take the following steps:

1. Connect an external hard drive to the digital receiver.
2. Press the [≡] button and then press the [◀◀] or [▶▶] button to select the External List.
3. Put the highlight bar on a desired file and press the [F3] button, then the list of folders gets displayed.
4. Select a folder in the built-in hard drive.
5. Press the [OK] button, then the selected file will be copied into the built-in hard drive.

8.2 Playing back MP3 files

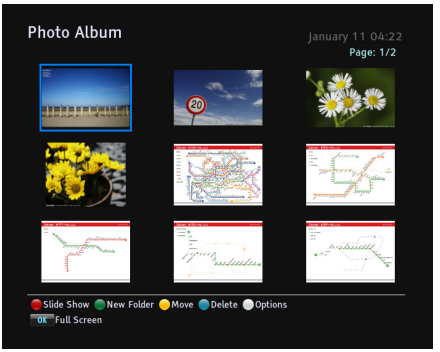


You can enjoy music or audio books in MP3 format on the digital receiver. Refer to §8.1 as to how to copy a file from an external hard drive into the built-in hard drive of the digital receiver. To play an MP3 file, take the following steps:

1. Select the Entertainment > MP3 Player or press the [≡] button and then the [◀◀] or [▶▶] button to display the MP3 file list.
2. Put the highlight bar on a desired file; if you want to play several files, select them with the [F1] button.
3. Press the [▶] button to start playback.
4. To stop playback, press the [■] button.

To play all MP3 files in a subfolder, put the highlight bar on a desired folder, and press the [▶] button. To change from one file to the next or previous file, use the [▶|] or [|◀] buttons.

8.3 Viewing image files



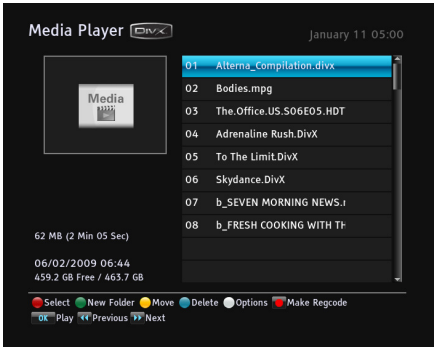
You can view image files in jpg format by performing the following steps:

1. Select the Entertainment > Photo Album menu, and then press the ◀◀ or ▶▶ button to display the list of image files.
2. Put the highlight bar on a desired file and press the OK button; if you want to view several files using a slide show, press the F1 button. You can change a time interval and effect of slideshow. See §4.11.
3. To stop viewing, press the EXIT button.

8.4 Playing back a video file

You can play back media files such as photos, videos and music with this digital receiver. Media file formats that you can play back with the digital receiver are as follows:

- video: DivX, XviD, vob, mkv, mp4, and avi;
- photo: jpg;
- music: MP3.



Refer to §8.1 as to how to copy a file from an external hard drive into the built-in hard drive of the digital receiver. To play a video file, take the following steps:

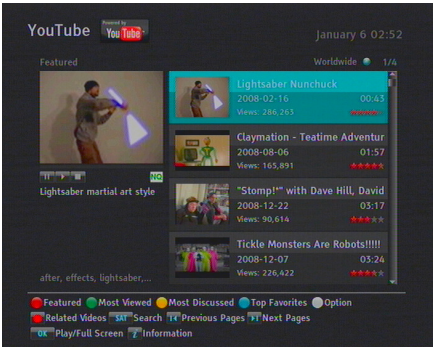
1. Select the Entertainment > Media Player or press the button, and then the or button to display the video file list.
2. Put the highlight bar on a desired file; if you want to play several files, select them with the F1 button.
3. Press the button to start playback.
4. To stop playback, press the button.

NOTE

This digital receiver supports only version 3.x, 4.x, 5.x, and 6.x of the Divx format.

8.5 Playing back YouTube contents

YouTube is a video sharing website where users can upload, view and share video files. With the SRP-2100, you can access YouTube and play back various contents.



When you select the Entertainment > YouTube, you should see a screen like the left figure.

To play back a YouTube content, select a content with the and buttons and press the OK button. To play back the content with full screen, press the OK button again.

You can sort the contents with the option buttons as follows:

- F1 button by most featured
- F2 button by view count
- F3 button from most discussed to least discussed
- F4 button by top favourites
- • button related contents

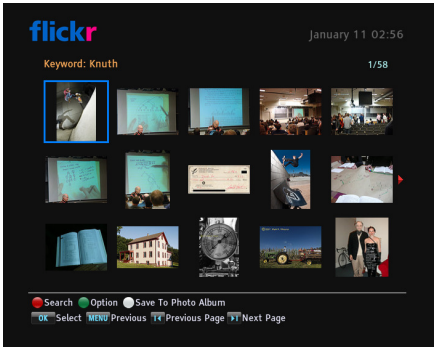
By pressing the Option button, you can sort the contents by the updated date, country and quality.

You can also search contents by a specific keyword. To search contents by a keyword, press the SAT button, then the on-screen keyboard appears. See §6.3 as to how to use the on-screen keyboard.

To see detailed information about the current one, press the *i* button. To hide the information box, press the EXIT button.

8.6 Sharing image files by Yahoo Flickr

Flickr is an image hosting website and on-line community platform. You can search an image file from the network server and view the file using the Flickr.



To use this function, select the Entertainment > Flickr.

You can see image files which belong to a specific user by adding a user. To add a user, take the following steps:

1. Press the F1 button, then the on-screen keyboard appears.
2. Enter a desired user name. As to how to use the keyboard, refer to §6.3.
3. After adding a user, select the user with the and buttons and press the OK button.

To delete a user, put the highlight bar on a desired user and press the F2 button, then you get asked for confirmation. If you select YES, it will be deleted.

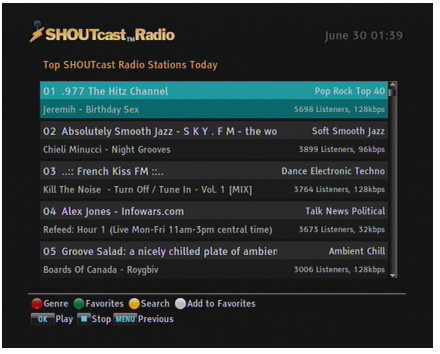
You can also search image files by a specific keyword. To do that, take the following steps:

1. Press the F3 button to go to the keyword search mode.
2. Press the F1 button, then the on-screen keyboard appears.
3. Enter a keyword as you desire. As to how to use the keyboard, refer to §6.3.
4. Select the Save key on the on-screen keyboard to start searching image files.

To save an image file to the photo album, press the Option button. For the photo album see §8.3.

8.7 SHOUTcast Internet radio

SHOUTcast™ Radio is one of the largest directories of professionally and community programmed online radio stations in the world. Today SHOUTcast™ Radio features over 25,000 stations from around the globe. If you are into pop or rock music, want to check out local or world programming, you're sure to find something you like on SHOUTcast™ Radio.


SHOUTcast Radio
June 30 01:39
Top SHOUTcast Radio Stations Today
01 .977 The Hitz Channel
Pop Rock Top 40
Jeremih - Birthday Sex
5698 Listeners, 128kbps
02 Absolutely Smooth Jazz - S K Y . F M - the wo
Soft Smooth Jazz
Chieli Minucci - Night Grooves
3899 Listeners, 96kbps
03 .:: French Kiss FM ::..
Dance Electronic Techno
Kill The Noise - Turn Off / Tune In - Vol. 1 [MIX]
5764 Listeners, 128kbps
04 Alex Jones - Infowars.com
Talk News Political
Refeed: Hour 1 (Live Mon-Fri 11am-3pm central time)
3673 Listeners, 32kbps
05 Groove Salad: a nicely chilled plate of ambien
Ambient Chill
Boards Of Canada - Roygbiv
3006 Listeners, 128kbps
Genre
Favorites
Search
Add to Favorites
OK Play
Stop
MENU Previous

To use SHOUTcast, select the Entertainment > SHOUTcast.

To listen to a radio station, select a radio station with the ◉ and ◉ buttons and press the OK button.

To search radio stations by genre, press F1 button.

You can also search radio stations by a specific keyword. To do that, take the following steps:

1. Press the F3 button, then the on-screen keyboard appears.
2. Type a keyword you desire. As to how to use the keyboard, refer to §6.3.
3. Select the Save key on the on-screen keyboard to start searching radio stations.

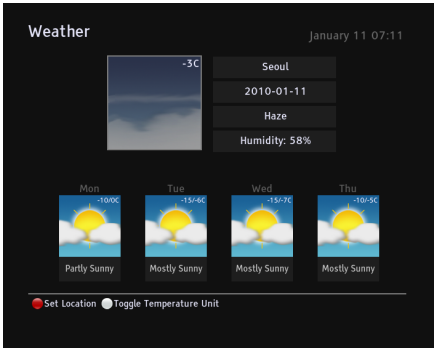
To add a radio station to a favourite list, put the highlight bar on a desired radio station and press the Option button. To display the favourite list, press the F2 button.

Powered by SHOUTcast Radio

For more details, visit the SHOUTcast web site, http://www.shoutcast.com. You can check their terms of service at the http://www.shoutcast.com/disclaimer.

8.8 Google weather forecast

You can view the weather of your city or other cities.



To view the weather, select the Entertainment > Weather, then you should see a screen like the left figure.

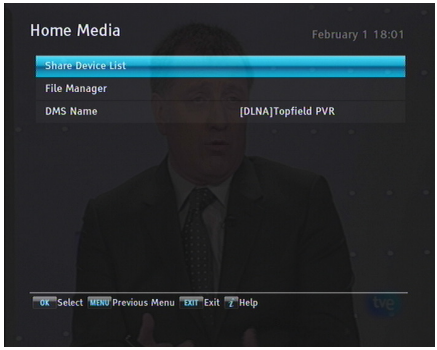
To change a city, take the following steps:

1. Press the F1 button to see additional options.
2. Set the Continent, Country and City options as you desire with the navigation buttons.
3. Press the EXIT button.

Pressing the Option button toggles between the Centigrade and Fahrenheit.

8.9 Sharing media content with other devices

You can share media content with other devices by virtue of Digital Living Network Alliance (DLNA) technology, which is a standard to allow entertainment devices within the home to share their content with each other across a home network. If you have, for example, a DivX player that is compliant with DLNA, then you can play back on the digital receiver the media content out of the DivX player, or vice versa.



Select the Entertainment > Home Media menu, then you should see a screen like the left figure. The name, [DLNA] Topfield PVR, specified at the DMS Name option is used as an identifier for other DLNA devices. Of course you can change that name as you pleased.

If the DLNA devices you have are all fully compliant with the DLNA standard, there would be in general four methods you can implement by means of DLNA as follows:

- Device A accesses and plays the media content out of device B.
- Device A commands device B to play its own media content.
- Device A commands device B to access and play the media content out of device A itself.
- Device A commands device B to access and play the media content out of device C.

Before going further, you had better set some of the folders in the digital reciever's hard drive to be shared so that they can be accessed and played by other DLNA devices. Select the File Manager menu and go through the submenus until the folder list appears. Set the folders you want to share to Share.

How to instruct the digital receiver to play back media content out of other DLNA devices is very easy as follows:

1. Select the Share Device List menu, then the list of all available DLNA devices gets displayed.
2. Select a DLNA device whose media content you want to play, then the list of media files of the selected device gets displayed.

3. Select a media file you want to play, then the digital receiver would pull and play the selected media file if it can play back.
4. If you want to make any other DLNA device play your selection, press the F4 button in stead of the OK button, then the list of DLNA devices gets displayed. Select a device you want to use as a player, then the designated device would pull and play the selected media file if it can play back.
5. If you want to copy your selection to the digital receiver, press the F3 button in stead of the OK button, then the selected media file gets copied into the digital receiver's hard drive.

8.10 Network game

You can play a network game named Battle Tank on the digital receiver. You can play the game by yourself or with others via the network.

8.10.1 Single mode

To play the game in single mode, select the Entertainment > Game > Battle Tank (Single), then take the following steps:

1. Select game mode.
2. Select a character.
3. Buy items as you desire.
4. Select a map. If you play the game by yourself, you do not need to select a map.
5. Start playing.

If you want to out of the game while palying, press the EXIT button on the remote control.

Selecting game mode

When you select the Entertainment > Game > Battle Tank (Single), you should see a screen like the left figure.

You can select game mode as you desire. If you want to out of the game, select the EXIT option.

There are two modes as below:

Single play playing by yourself.

Double play playing with another user.

Select a mode with the ◎ and ◎ buttons and press the OK button.

Selecting a character

After selecting game mode, you should see a screen like the left figure.

Select a character referring to Table 8.1.

If you select the ?, a character will be chosen randomly.

When you play the game for the first time, you can select only two characters. To get a new character, you have to play in single mode and clear all 13 stages.

Table 8.1: Buttons for selection

	Remote Control		Keyboard	
Action	**1 Player**	**2 Player**	**1 Player**	**2 Player**
Left			Left arrow	**A**
Right			Right arrow	**D**
Up			Up arrow	**W**
Down			Down arrow	**S**
Select	OK	F2	Space bar	Enter

You can see the selected character's information of the 1 Player on the left bottom of the screen. Also you can see the selected character's information of the COM or 2 Player on the right bottom of the screen. You have to select a character in 30 seconds; otherwise, the character will be selected automatically.

Buying items

After selecting a character, you should see a screen like the left figure. Buy a item referring to Table 8.1.

When you finish selecting items, select the READY on the screen as follows:

- **1 Player** : Select the READY using the MENU button and press the OK button.
- **2 Player** : Select the READY using the F1 button and press the F2 button.

Selecting a map

After buying items, you should see a screen like the left figure.

Select a map with the ◎ and ◎ buttons.

After selecting a map, select the START on the screen.

Select the START using the MENU button and press the OK button. If you play the game by yourself, you do not need to select a map.

Playing the Battle Tank

When you start the game, you should see a sceen like the following figure. Play the game referring to Table 8.2.

1 The character's weapons.

2 The angle of the character.

3 You can see the direction and speed of wind.

4 You can see the information of the character as follows:

ENERGY displays the character's energy.
POWER displays the power of shot.
MOVE displays the movement bar.

5 You can check your position and enemy's position on this mini-map.

6 You can use those items during playing game.

7 Displays current player.

8 Displays the turn time. If the time is over, turn will be changed to the other player.

Table 8.2: Buttons for playing

Action	Remote Control	Keyboard
Changing weapon	3 4	**F3 F4**
Changing angle		up and down arrows
Moving character		left and right arrows
Using items	7 8 9 0	**F9 F10 F11 F12**
Skipping turn	5	**F5**
Changing view of map	startbutton	**W A S D**
Firing a shot	OK	Space bar

8.10.2 Network mode

To play the game in network mode, select the Entertainment > Game > Battle Tank (Network), and then take the following steps:

1. Select a game server.
2. Log on to the game server.
3. Joining a game.
4. Selecting a character, map and items for playing.
5. Start playing.

NOTE

Refer to the Battle Tank user guide as to how to play Battle Tank in network mode. You can download it from the Topfield website, http://www.i-topfield.com.

Chapter 9

Accessing via Network

NOTE

The following section describes complex functions that should only be used by owners with advanced computer knowledge.

This digital receiver provides features of web service and FTP service, by which through the network you can make scheduled recordings, or transfer recording files to your computer.

Here you need a router, which will connect the digital receiver to your computer or to the Internet.

To use the network features of the digital receiver, you should take the following steps:

1. Configuring your router for the digital receiver.
2. Configuring the network settings on the digital receiver.
3. Accessing the home page of the digital receiver. Refer to §9.3 for detailed description about things you can do by using the web service of the digital receiver.
4. Accessing the FTP Server of the digital receiver.

NOTE

The web server and FTP server of the digital receiver do not work in standby mode. So it must be powered up at all times if you wish to use the web service at any time.

9.1 Configuring the router

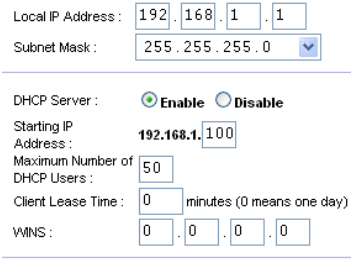
In this section, the setup program of *WRT54G*, which is a router manufactured by *Linksys*, will be referred to as an example of how to configure the router for network access.

NOTE

For detailed description about how to set up the router, refer to the manual of your router.

9.1.1 To access within the local area network

Once your router is powered up, a local area network gets created whether or not it is connected to the Internet.


Local IP Address : 192 . 168 . 1 . 1
Subnet Mask : 255.255.255.0
DHCP Server : Enable Disable
Starting IP Address : 192.168.1. 100
Maximum Number of DHCP Users : 50
Client Lease Time : 0 minutes (0 means one day)
WINS : 0 . 0 . 0 . 0

You can let the router automatically assign a dynamic IP address to the computers or devices connected to the network by enabling the DHCP server of the router. In this case, you can access the digital receiver with the IP address which is assigned to the digital receiver by the router.

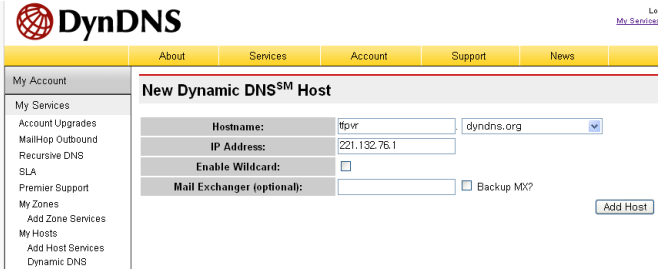
If the digital receiver reboots, a new dynamic IP address will be assigned to it. You had better assign a static IP address to the digital receiver to avoid this inconvenience. As to how to assign a static IP address, refer to the manual of your router; as to how to specify a static IP address on the digital receiver, see §9.2.

9.1.2 To access over the Internet

When you are away from home, you can access the digital receiver inside your home if your router is configured to route access to the digital receiver by means of port forwarding. Via this feature, your router will lead you to the digital receiver when you access your router with its IP address.

Port Range					
Application	Start	End	Protocol	IP Address	Enable
PVRHTTP	80 to	80	Both	192.168.1. 161	☑
PVRFTP	20 to	21	Both	192.168.1. 161	☑
	0 to	0	Both	192.168.1. 0	☐
	0 to	0	Both	192.168.1. 0	☐

Your router may be assigned to a dynamic IP address by an Internet service provider. So if the router has rebooted, you cannot access it unless someone in your home can inform you of the changed IP address. However, many routers support Dynamic Domain Name System (DDNS) service, which can settle this problem. The following image is an example of one such DDNS service provider.



If you use a DDNS service, you can access your router with a domain name. The instructions on how to use the DDNS service are as follows:

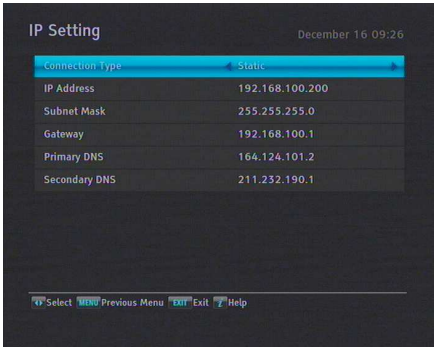
1. Make an account on a web site providing DDNS service,

which should be supported by your router.

2. Configure your router with the account so that it can communicate with the web site.

Whenever a new dynamic IP address is assigned to the router, it will inform the DDNS service provider of the new IP address. This makes it possible that you access the router with a domain name at any time.

9.2 Configuring the network setting on the digital receiver



You should configure the network settings to enable the web service and FTP service. Select the Installation > Network Setting > IP Setting menu.

The easiest way to configure the network settings is to assign a dynamic IP address to the digital receiver by setting the Connection Type option to DHCP.

When the digital receiver is restarted, the dynamic IP address could be changed more often than not, and you will have to check what it is to access the digital receiver. To avoid this

cumbersome thing, you had better assign a static IP address rather than dynamic one.

To assign a static IP address, set the Connection Type option to Static, then the IP Address, Subnet Mask, Gateway, Primary DNS and Secondary DNS options become enabled. You have to set these options to match with the configuration of your router.

9.3 Accessing the web server

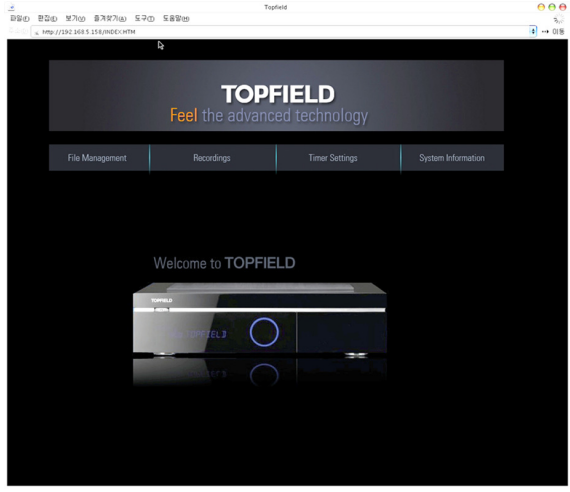
To Access to the web server, set the Installation > Network Setting > Web Server option to Enable.

Select the Installation > Network Setting > User Info menu. At this time, you have to enter Personal Identification Number (PIN). Then set the User ID and Password options as you desire. And select OK to save the settings. When you access to the web server, you will be asked for the account that was made with these options.

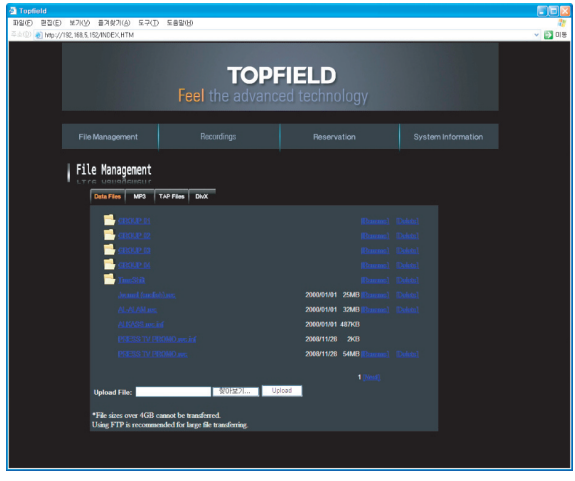
In way of the web server of the digital receiver, you can do the following:

- Download recording files.
- Create new recording timers.
- View information about the programme currently being recorded.
- View the system information of the digital receiver.

To access the digital receiver's home page through your web browser, enter its IP address, or domain name if you use a DDNS service. For the DDNS service, refer to the user manual of your router.



You cannot only download but also upload recording files or MP3 files in the File Management page. However, if you wish to download or upload a file of which size is 2 gigabyte or more, it is recommended using the FTP server rather than the web server.



NOTE

The maximum number of user connections is one. This means that you cannot access the web server while someone else is occupying it.

9.4 Accessing the FTP server

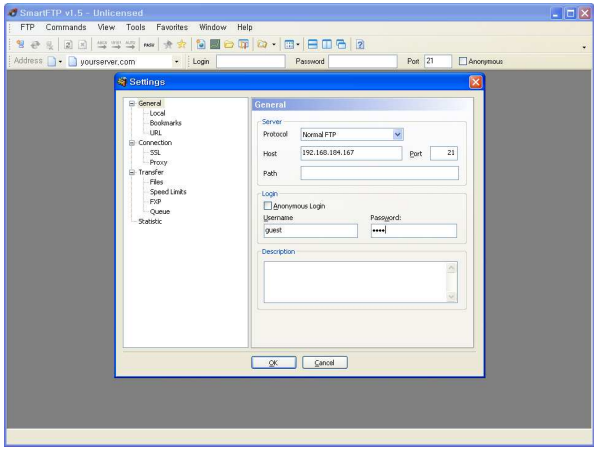
To Access to the FTP server, set the Installation > Network Setting > FTP Server option to Enable.

Select the Installation > Network Setting > User Info menu. At this time, you have to enter Personal Identification Number (PIN). Then set the User ID and Password options as you desire. And select OK to save the settings. When you access to the FTP server, you will be asked for the account that was made with these options.

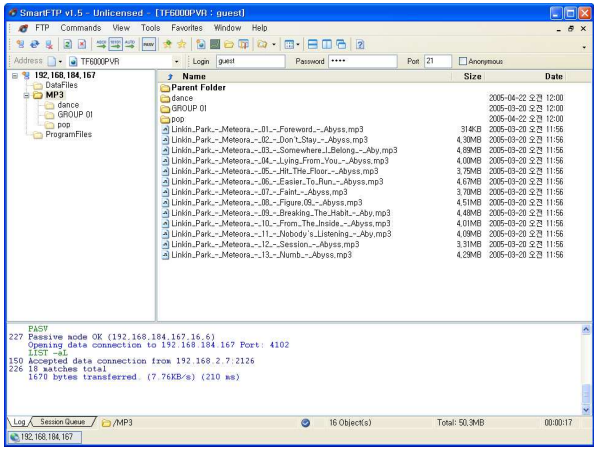
NOTE

You can access the FTP server with an anonymous account. However, with an anonymous account you can only download files. You cannot upload files.

You need an FTP client program to access the FTP server of the digital receiver.



You can log into the FTP server with the user name and password specified in the Installation > Network Setting > User Info menu.



NOTE

The maximum number of user connections is one. This means that you cannot access the FTP server while someone

else is occupying it.

Chapter 10

Topfield Application Program

If you are good at programming with *C/C++* language, you may make an executable program to run on the digital receiver. We call user-made programs TopfieldApplication Programs (TAP).

For TAPs writers, Topfield provides two versions of *gcc* compilier and TAP API (Application Program Interface) libraries that are available from Topfield's website, `http://www.i-topfield.com/eng/download/utility_list.asp`. One is *Linux* version, and the other is *Cygwin* version.

Cygwin is a Unix-like environment and command-line interface for *Microsoft Windows*.

Your TAPs will be run with the following conditions:

- A TAP's file extension must be *tap*; if it has any other extension name, it will be ignored.

- TAPs must be situated in the Program Files folder; if they are placed in any other folder, they will be ignored.

As to how to transfer your TAPs to the digital receiver, refer to §8.1 or Chapter 9.

To run a TAP in the digital receiver, take the following steps:

1. Press the [≡] button and then the [◀◀] or [▶▶] button to display the program files list.
2. Place the highlight bar on a program file you want to run, and press the [OK] button to start it up.
3. If it is a running-in-the-background program, its entry in the list gets marked in green when it starts. You may have several programs run in the background at a time.
4. To stop a program running in the background, place the highlight bar on its entry in the list, and press the [OK] button; otherwise you can stop it with the [EXIT] button.

The figure on the left is a screenshot of *ScreenCapture.tap*, with which you can capture screen in *bmp* format from the digital receiver. Not only this TAP but a lot of sample TAPs are available in the TAP API.

By the way, the digital receiver will not show the list of the screenshots saved by the *ScreenCapture.tap* because *bmp* files are supposed to be ignored by the digital receiver. So, to view the screenshots, you need to transfer them to your computer via FTP.

If you want to have a program automatically run when the digital receiver starts up, then move the program file to the Au-

toStart folder. If you want to abort the execution of it, press the 0 button at start-up.

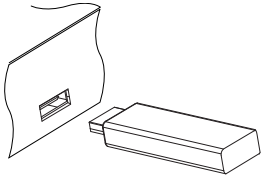
Chapter 11

Firmware Update

The digital receiver has a stable and convenient firmware to use. However, once in a while a new firmware may be released to improve the digital receiver. You can get the latest firmware and the firmware update tool, which runs on most versions of Windows, from the Topfield website, http://www.i-topfield.com.

11.1 From a memory stick

If you have a USB memory stick, you can update the firmware from it by taking the following steps:



1. Download a new firmware from the Topfield website.
2. Copy the firmware file to your memory stick.
3. Insert the USB memory stick into the USB port on the digital receiver.
4. Select the Installation > Firmware Upgrade > USB Firmware Upgrade menu, and the files in the USB memory will be listed.

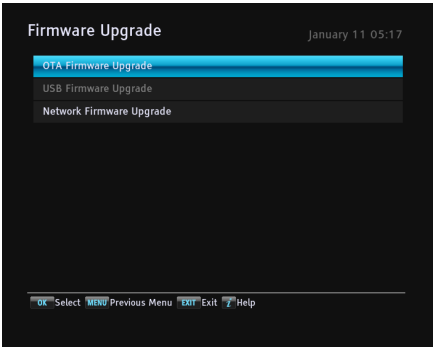
5. Place the highlight bar on the right firmware file and press the OK button, and a countdown will be displayed on the front display of the digital receiver.
6. When the message of 'END' appears, restart the digital receiver.

11.2 From the firmware server via the Internet

You can update the firmware from the firmware server which is being run by Topfield via the Internet. Make sure that the digital receiver is connected to your router before configuring the network settings on the digital receiver.

NOTE

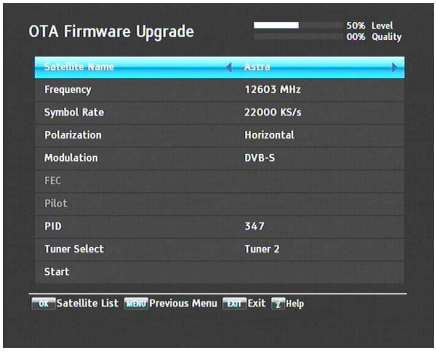
For detailed description about how to set up the router, refer to the manual of your router.



Select the Installation > Firmware Upgrade > Network Firmware Upgrade menu. You should see a screen like the left figure.

To enable the digital receiver to update the firmware automatically when a new firmware is available, set the Automatic Upgrade option to Enable. Otherwise if you want to do that by yourself, select the Start firmware upgrade option, then you get asked for confirmation. With the choice of Yes, it will check up whether a new firmware is available, and it starts firmware update if any.

11.3 Over the air



You can get a new firmware over the air. Select the Installation > Firmware Upgrade > OTA Firmware Upgrade menu. You should see a screen like the left figure.

Satellite	*Astra* (19.2° E)
Frequency	12603 MHz
Symbol Rate	22000 KS/s
Polarisation	Horizontal
PID	347

On the left table is presented the transponder information appointed by the manufacturer, Topfield, for firmware update.

This transponder information can be changed. You can get the information from the website, http://www.i-topfield.com. Selecting the Start command starts firmware update.

Appendix A

Universal Remote Control

The universal remote control allows you to operate the most important functions such as power on/off and volume control on your television, audio-video receiver, or DVD player. For the use of buttons, refer to Table A.1. To be able to control the device, you must adapt the remote control to the device first.

Take the following steps:

1. Turn on the device you want to operate.
2. Point the remote control at the remote sensor on the device.
3. Hold down the OK and device button simultaneously for two seconds until the light flashes on. For example, if you want to operate your television with the remote control, press the OK and TV buttons simultaneously.
4. Find the manufacturer of the device from the codes list.
5. Enter the three-digits code you have found for your device and press the OK button.
6. If the setting is finished correctly, the light blinks twice and the device will be turned off. Otherwise, repeat from the step 2.

If you cannot find a code for your device, do as follows:

1. Turn on the device you want to operate.
2. Point the remote control at the remote sensor on the device.
3. Hold down the OK and device button simultaneously for two seconds until the light flashes on. For example, if you want to operate your television with the remote control, press the OK and TV buttons simultaneously.
4. Press the CHANNEL+ or CHANNEL− button until the device turns off.

If you want to find out the number which you set for your device, do as follows:

1. Hold down the OK and device button simultaneously for two seconds. For example, if you want to know the number which you set for your television, press the OK and TV buttons simultaneously.
2. Press the *i* button. Then the light will show the number with blinks. For example, if the number is 3, the light will blink three times. In case of 0, the light will blink ten times.

You can reset the settings by doing as follows:

1. Hold down the TV and 0 buttons simultaneously for more than five seconds.
2. Each device button blinks three times in the following order: PVR → DVD → AUX → TV
3. After that, all settings will be reset to the manufacturer's factory settings.

NOTE

Some buttons may not work properly depending on a device. If your device code is not listed on the following pages, you will not be able to use this remote as a universal remote for your specific device.

Table A.1: Operating buttons

PVR	TV	DVD	AUX
	Power on/off	Power on/off	Power on/off
VOLUME +	Volume up	Volume up	Volume up
VOLUME −	Volume down	Volume down	Volume down
	Mute	X	Mute
CHANNEL +	X	X	Channel up
CHANNEL −	X	X	Channel down
0	0	0	X
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
	TV INPUT	X	X
	X	Up	X
	X	Down	X
OK	X	OK	X
	Left	Left	X
	Right	Right	Right
MENU	X	Menu	X
GUIDE	X	Guide	X
EXIT	X	Exit	Exit
	X	Stop	X
	X	Rewind	X
	X	Pause	X
	X	Play	X
	X	Fast forward	X

A.1 Code list for television sets

A

ACCENT 049, 063
ACEC 112
ACURA 195
ADMIRAL 065, 076, 163, 171, 190, 307, 324, 369
ADYSON 379
AGASHI 076, 379
AGEF 324
AIKO 049, 063, 076, 102, 141, 172, 195, 225, 379
AIM 049, 063
AIWA 376, 377
AKAI 019, 049, 050, 055, 063, 076, 102, 107, 123, 133, 139, 141, 150, 172, 174, 182, 195, 209, 225, 326, 333, 379, 428, 432, 433, 437
AKIBA 006, 049, 063, 123, 380
AKITO 049, 063, 106
AKURA 006, 049, 076, 096, 123, 195, 419, 426
ALARON 042, 334
ALBA 018, 044, 049, 050, 107, 123, 134, 163, 179, 184, 195, 225, 228, 232, 239, 379, 413, 421, 431
ALBIRAL 121, 326, 372
ALCYON 407
ALLORGAN 050, 094, 236, 334
ALLSTAR 049, 063
AMPLIVISION 113, 379, 421, 425
AMSTRAD 004, 011, 049, 063, 076, 123, 131, 172, 195, 225, 426
ANAM 049, 063, 195
ANGLO 076, 195
ANITECH 049, 063, 076, 195, 407
ANSONIC 045, 049, 063, 107, 112, 195, 210, 242, 391, 413, 421
APOLLO 165
ARC EN CIEL 029, 034, 074, 182, 186, 415, 424
ARCAM 029, 379, 424
ARDEM 392
ARISTONA 049, 050, 063, 065, 079, 112, 158, 160, 188
A.R.SYSTEM 049, 063
ARTHUR MARTIN 075, 107, 127, 133, 136, 139, 148, 153, 307, 425
ASA 003, 020, 065, 078, 080, 091, 117, 146, 171, 197, 235, 307, 319, 324, 341, 375, 406, 408
ASBERG 049, 063, 407
ASORA 195
ASTRA 195
ASUKA 006, 050, 076, 123, 379
ATLANTIC 049, 050, 063, 113, 236, 242, 379
ATORI 195
AUCHAN 107, 425
AUDIOSONIC 031, 049, 063, 074, 076, 195, 213, 379, 392, 421
AUDIOTON 050, 076, 379, 392, 421
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